

Table S7. Proteins found in melanoma patient seroma-derived exosomes

| ID protein | Gene names | N1a | N1b | N2a | N2b | N3 |
|------------|------------|-------|-------|-------|-------|-------|
| P04217 | A1BG | 20.57 | 20.35 | 21.36 | 21.35 | 20.93 |
| P01023 | A2M | 30.33 | 30.05 | 30.21 | 30.35 | 29.87 |
| Q8IZP0 | ABI1 | 17.04 | 16.19 | 17.63 | 16.36 | 16.74 |
| Q7Z7G0 | ABI3BP | 15.95 | 16.72 | 16.89 | 17.22 | 15.85 |
| P09110 | ACAA1 | 15.92 | 15.77 | 18.27 | 17.17 | 17.44 |
| P53396 | ACLY | 15.97 | 15.41 | 18.03 | 18.55 | 17.86 |
| P21399 | ACO1 | 15.55 | 15.70 | 15.64 | 16.99 | 15.91 |
| Q15067 | ACOX1 | 16.49 | 16.49 | 18.45 | 17.69 | 16.68 |
| P33121 | ACSL1 | 19.37 | 20.18 | 20.12 | 20.95 | 19.92 |
| O95573 | ACSL3 | 15.45 | 15.50 | 16.05 | 15.74 | 15.85 |
| O60488 | ACSL4 | 15.77 | 16.02 | 17.17 | 15.26 | 16.40 |
| P60709 | ACTB | 24.86 | 24.95 | 25.12 | 24.87 | 25.09 |
| P68032 | ACTC1 | 27.05 | 26.93 | 26.39 | 26.48 | 26.89 |
| P12814 | ACTN1 | 19.50 | 18.21 | 19.66 | 19.80 | 17.85 |
| P35609 | ACTN2 | 19.41 | 16.85 | 19.27 | 18.37 | 19.05 |
| Q08043 | ACTN3 | 17.03 | 16.27 | 17.35 | 17.54 | 15.92 |
| O43707 | ACTN4 | 18.17 | 16.18 | 19.16 | 18.10 | 18.01 |
| P61163 | ACTR1A | 16.30 | 15.99 | 16.51 | 17.28 | 17.47 |
| P61160 | ACTR2 | 16.32 | 17.35 | 18.69 | 17.52 | 17.38 |
| P61158 | ACTR3 | 18.19 | 16.88 | 18.49 | 18.80 | 17.91 |
| O14672 | ADAM10 | 19.08 | 17.94 | 18.64 | 18.23 | 18.46 |
| P35611 | ADD1 | 17.08 | 15.49 | 17.19 | 17.53 | 15.65 |
| P00325 | ADH1B | 19.49 | 19.02 | 21.83 | 22.62 | 20.07 |
| Q15848 | ADIPOQ | 15.92 | 15.88 | 17.15 | 15.72 | 15.94 |
| Q9BRR6 | ADPGK | 16.43 | 16.83 | 17.63 | 16.81 | 15.02 |
| P43652 | AFM | 16.10 | 15.81 | 17.82 | 17.24 | 18.06 |
| P35573 | AGL | 16.05 | 16.84 | 15.77 | 15.95 | 15.95 |

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|--------|----------|-------|-------|-------|-------|-------|
| O15120 | AGPAT2 | 16.00 | 16.36 | 16.21 | 16.76 | 15.97 |
| Q53EU6 | AGPAT9 | 16.11 | 15.74 | 16.74 | 15.63 | 16.32 |
| O00116 | AGPS | 16.28 | 15.50 | 18.09 | 17.25 | 15.75 |
| P01019 | AGT | 20.29 | 18.77 | 19.85 | 19.03 | 19.83 |
| P23526 | AHCY | 15.70 | 15.65 | 15.66 | 15.64 | 17.64 |
| Q09666 | AHNAK | 20.30 | 19.85 | 22.72 | 21.95 | 19.04 |
| P02765 | AHSG | 23.75 | 22.41 | 22.94 | 24.52 | 23.93 |
| P00568 | AK1 | 16.34 | 15.42 | 17.17 | 17.87 | 16.47 |
| P54819 | AK2 | 15.93 | 15.57 | 16.26 | 16.21 | 15.84 |
| Q04828 | AKR1C1 | 16.47 | 17.32 | 18.36 | 18.73 | 15.84 |
| P02768 | ALB | 30.32 | 30.38 | 30.08 | 30.30 | 30.50 |
| Q8IZ83 | ALDH16A1 | 16.80 | 16.04 | 17.18 | 17.74 | 16.24 |
| P00352 | ALDH1A1 | 16.09 | 16.12 | 17.63 | 17.61 | 16.40 |
| P05091 | ALDH2 | 16.58 | 16.15 | 17.27 | 18.00 | 15.50 |
| P51648 | ALDH3A2 | 15.86 | 15.49 | 16.73 | 16.79 | 15.75 |
| P43353 | ALDH3B1 | 16.14 | 16.33 | 17.96 | 16.31 | 15.15 |
| P04075 | ALDOA | 21.12 | 20.41 | 22.05 | 20.25 | 21.48 |
| Q9Y673 | ALG5 | 15.43 | 16.16 | 16.25 | 15.74 | 15.29 |
| P09917 | ALOX5 | 20.34 | 19.95 | 20.45 | 19.95 | 19.83 |
| P20292 | ALOX5AP | 17.87 | 19.80 | 22.35 | 18.49 | 15.67 |
| P05186 | ALPL | 16.24 | 17.73 | 18.57 | 16.77 | 16.36 |
| P02760 | AMBP | 23.62 | 24.11 | 22.74 | 23.50 | 23.98 |
| Q01432 | AMPD3 | 16.20 | 15.89 | 16.71 | 16.22 | 17.49 |
| P03950 | ANG | 15.88 | 15.94 | 15.64 | 16.26 | 16.78 |
| P16157 | ANK1 | 21.84 | 21.37 | 22.24 | 21.89 | 20.77 |
| Q5VYY1 | ANKRD22 | 16.56 | 15.90 | 17.66 | 16.77 | 16.51 |
| Q9NW15 | ANO10 | 17.15 | 16.56 | 18.70 | 17.30 | 16.65 |
| Q4KMQ2 | ANO6 | 15.65 | 15.69 | 17.23 | 16.18 | 16.12 |
| P39687 | ANP32A | 18.79 | 16.76 | 15.95 | 17.77 | 18.20 |
| Q92688 | ANP32B | 17.67 | 16.08 | 15.19 | 17.46 | 17.19 |

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|--------|---------|-------|-------|-------|-------|-------|
| Q9BTT0 | ANP32E | 17.55 | 15.68 | 15.82 | 17.08 | 15.28 |
| P15144 | ANPEP | 21.42 | 21.58 | 22.57 | 22.12 | 21.52 |
| P58335 | ANTXR2 | 15.69 | 15.97 | 16.14 | 16.07 | 15.04 |
| P04083 | ANXA1 | 25.38 | 25.23 | 24.70 | 25.06 | 24.85 |
| P50995 | ANXA11 | 22.80 | 22.63 | 22.55 | 22.50 | 22.33 |
| P07355 | ANXA2 | 24.78 | 25.01 | 25.20 | 25.46 | 24.66 |
| P12429 | ANXA3 | 24.61 | 24.62 | 24.45 | 24.48 | 24.56 |
| P09525 | ANXA4 | 21.82 | 21.62 | 22.11 | 21.86 | 21.33 |
| P08758 | ANXA5 | 23.45 | 23.56 | 23.29 | 23.84 | 22.74 |
| P08133 | ANXA6 | 24.56 | 24.61 | 24.37 | 24.55 | 24.22 |
| P20073 | ANXA7 | 21.05 | 20.72 | 20.27 | 20.29 | 19.92 |
| Q16853 | AOC3 | 22.98 | 23.56 | 23.26 | 24.44 | 23.27 |
| O95782 | AP2A1 | 15.95 | 16.41 | 16.43 | 16.93 | 15.98 |
| P63010 | AP2B1 | 16.34 | 15.45 | 16.83 | 16.74 | 15.54 |
| Q7Z5R6 | APBB1IP | 16.39 | 15.51 | 16.82 | 15.96 | 16.46 |
| P02743 | APCS | 26.83 | 26.85 | 20.77 | 24.13 | 24.95 |
| Q9HDC9 | APMAP | 22.76 | 22.81 | 23.07 | 22.37 | 22.93 |
| P02647 | APOA1 | 27.16 | 26.76 | 26.59 | 26.87 | 27.38 |
| P02652 | APOA2 | 22.25 | 21.58 | 20.86 | 21.34 | 18.85 |
| P06727 | APOA4 | 21.90 | 21.22 | 22.96 | 22.28 | 24.06 |
| P04114 | APOB | 22.04 | 21.51 | 22.38 | 21.65 | 22.59 |
| P02654 | APOC1 | 22.75 | 23.11 | 22.46 | 22.64 | 22.57 |
| P02655 | APOC2 | 16.82 | 19.02 | 17.12 | 18.66 | 18.66 |
| P02656 | APOC3 | 18.50 | 18.97 | 16.87 | 20.63 | 19.52 |
| P05090 | APOD | 21.79 | 22.02 | 22.32 | 22.14 | 22.26 |
| P02649 | APOE | 21.92 | 22.30 | 22.33 | 21.88 | 23.74 |
| Q13790 | APOF | 15.86 | 16.22 | 18.35 | 16.98 | 18.03 |
| P02749 | APOH | 23.64 | 24.44 | 24.74 | 24.40 | 24.35 |
| O14791 | APOL1 | 22.17 | 21.36 | 21.95 | 20.83 | 21.82 |
| O95445 | APOM | 16.48 | 16.23 | 15.73 | 15.43 | 17.21 |

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|--------|----------|-------|-------|-------|-------|-------|
| P07741 | APRT | 15.98 | 16.36 | 16.34 | 16.52 | 16.24 |
| P84077 | ARF1 | 20.81 | 20.88 | 21.39 | 20.84 | 20.78 |
| P18085 | ARF4 | 15.88 | 16.47 | 16.51 | 16.21 | 15.60 |
| P62330 | ARF6 | 15.78 | 16.50 | 17.02 | 15.01 | 15.67 |
| P05089 | ARG1 | 15.61 | 16.59 | 16.75 | 17.09 | 16.45 |
| Q07960 | ARHGAP1 | 16.08 | 15.81 | 15.89 | 16.34 | 15.57 |
| Q9BRR9 | ARHGAP9 | 15.63 | 16.19 | 16.00 | 15.23 | 15.61 |
| P52565 | ARHGDI A | 17.13 | 16.37 | 19.17 | 18.05 | 16.41 |
| P52566 | ARHGDI B | 20.94 | 20.96 | 21.29 | 20.90 | 20.58 |
| Q92974 | ARHGEF2 | 15.24 | 15.94 | 15.63 | 16.26 | 15.48 |
| O75915 | ARL6IP5 | 17.42 | 16.82 | 20.49 | 17.69 | 17.86 |
| Q9NVJ2 | ARL8B | 15.01 | 16.50 | 16.63 | 16.35 | 15.55 |
| O15143 | ARPC1B | 15.76 | 15.80 | 16.92 | 17.42 | 16.80 |
| O15144 | ARPC2 | 16.73 | 16.01 | 18.02 | 17.48 | 16.91 |
| O15145 | ARPC3 | 17.12 | 15.22 | 18.24 | 17.65 | 17.82 |
| P59998 | ARPC4 | 16.89 | 17.69 | 17.50 | 16.83 | 17.26 |
| O15511 | ARPC5 | 15.47 | 16.67 | 18.62 | 17.65 | 17.43 |
| Q13510 | ASAH1 | 15.97 | 16.66 | 16.83 | 16.25 | 15.65 |
| Q12797 | ASPH | 16.16 | 15.66 | 17.04 | 17.99 | 15.94 |
| Q9BXN1 | ASPN | 18.25 | 19.20 | 18.31 | 18.55 | 19.07 |
| P31939 | ATIC | 15.69 | 15.40 | 15.57 | 15.69 | 15.72 |
| Q6DD88 | ATL3 | 17.96 | 18.10 | 19.87 | 19.33 | 17.31 |
| P98196 | ATP11A | 15.33 | 16.10 | 16.17 | 15.64 | 15.38 |
| Q9Y2G3 | ATP11B | 15.86 | 15.90 | 16.87 | 16.14 | 16.06 |
| P05023 | ATP1A1 | 18.67 | 18.28 | 20.83 | 19.14 | 17.76 |
| P54709 | ATP1B3 | 15.77 | 15.80 | 18.66 | 17.29 | 16.80 |
| O14983 | ATP2A1 | 22.04 | 20.89 | 21.23 | 18.13 | 20.83 |
| P16615 | ATP2A2 | 17.09 | 15.64 | 16.24 | 16.95 | 15.99 |
| Q93084 | ATP2A3 | 19.81 | 19.11 | 20.24 | 18.33 | 19.37 |
| P23634 | ATP2B4 | 16.59 | 15.59 | 19.49 | 17.52 | 16.29 |

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|--------|----------|-------|-------|-------|-------|-------|
| P25705 | ATP5A1 | 16.04 | 15.17 | 18.32 | 17.71 | 17.09 |
| P06576 | ATP5B | 17.21 | 16.08 | 19.72 | 18.38 | 17.15 |
| P56134 | ATP5J2 | 16.06 | 15.83 | 16.37 | 15.03 | 16.07 |
| Q93050 | ATP6V0A1 | 16.72 | 16.11 | 17.77 | 16.24 | 17.15 |
| P38606 | ATP6V1A | 16.88 | 15.87 | 17.80 | 17.20 | 16.89 |
| P21281 | ATP6V1B2 | 15.53 | 16.65 | 16.32 | 15.71 | 15.38 |
| O75348 | ATP6V1G1 | 15.32 | 15.72 | 16.41 | 16.46 | 16.02 |
| P25311 | AZGP1 | 17.45 | 17.55 | 19.00 | 17.69 | 18.09 |
| P20160 | AZU1 | 23.37 | 24.05 | 21.40 | 22.92 | 22.90 |
| P61769 | B2M | 17.88 | 16.04 | 21.69 | 20.83 | 18.94 |
| O75531 | BANF1 | 17.55 | 17.60 | 18.97 | 17.82 | 18.63 |
| P80723 | BASP1 | 21.88 | 22.51 | 21.83 | 21.67 | 21.78 |
| P51572 | BCAP31 | 20.35 | 20.60 | 20.82 | 20.27 | 19.26 |
| P06276 | BCHE | 16.30 | 16.07 | 17.29 | 15.17 | 17.28 |
| P21810 | BGN | 18.59 | 18.03 | 19.04 | 18.22 | 18.26 |
| Q9UBW5 | BIN2 | 16.91 | 16.07 | 15.68 | 16.79 | 15.33 |
| P53004 | BLVRA | 15.79 | 16.33 | 15.83 | 16.68 | 15.40 |
| P30043 | BLVRB | 21.10 | 21.66 | 20.85 | 21.58 | 21.73 |
| P17213 | BPI | 19.87 | 20.40 | 20.65 | 18.61 | 18.89 |
| P35613 | BSG | 18.79 | 18.34 | 18.89 | 19.06 | 17.02 |
| Q10588 | BST1 | 20.53 | 20.43 | 20.45 | 20.96 | 21.24 |
| Q9H7M9 | C10orf54 | 17.89 | 15.75 | 20.02 | 18.26 | 16.68 |
| Q9BQA9 | C17orf62 | 15.69 | 16.34 | 16.31 | 15.60 | 16.36 |
| P02745 | C1QA | 24.86 | 25.42 | 23.24 | 23.85 | 23.91 |
| P02746 | C1QB | 25.60 | 25.99 | 23.43 | 24.38 | 24.61 |
| P02747 | C1QC | 25.45 | 26.28 | 23.47 | 24.30 | 24.95 |
| P00736 | C1R | 26.21 | 26.52 | 23.06 | 24.56 | 25.43 |
| P09871 | C1S | 26.05 | 26.19 | 20.25 | 23.08 | 24.19 |
| P06681 | C2 | 16.38 | 15.75 | 18.13 | 17.80 | 17.05 |
| P01024 | C3 | 28.67 | 28.62 | 27.86 | 28.43 | 28.70 |

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|--------|--------|-------|-------|-------|-------|-------|
| P0C0L4 | C4A | 23.25 | 22.65 | 22.21 | 22.11 | 23.48 |
| P0C0L5 | C4B | 27.70 | 27.65 | 26.46 | 27.08 | 27.46 |
| P04003 | C4BPA | 27.67 | 27.81 | 25.44 | 26.67 | 26.60 |
| P20851 | C4BPB | 23.31 | 23.29 | 21.63 | 22.38 | 22.08 |
| P01031 | C5 | 25.35 | 25.77 | 25.01 | 25.23 | 25.61 |
| P21730 | C5AR1 | 20.47 | 20.44 | 21.15 | 20.42 | 19.00 |
| P13671 | C6 | 22.79 | 23.20 | 22.82 | 22.86 | 23.01 |
| P10643 | C7 | 22.90 | 23.31 | 22.43 | 22.93 | 22.97 |
| P07357 | C8A | 23.22 | 23.66 | 22.01 | 22.83 | 22.99 |
| P07358 | C8B | 22.98 | 23.82 | 22.04 | 22.88 | 23.09 |
| P07360 | C8G | 21.32 | 22.35 | 20.94 | 20.76 | 22.24 |
| P02748 | C9 | 25.14 | 25.74 | 24.86 | 25.20 | 25.24 |
| P00915 | CA1 | 22.01 | 22.65 | 22.07 | 21.53 | 22.95 |
| P00918 | CA2 | 18.06 | 17.82 | 18.97 | 18.15 | 19.91 |
| P07451 | CA3 | 17.34 | 15.69 | 16.00 | 16.12 | 16.19 |
| P22748 | CA4 | 18.89 | 18.21 | 19.86 | 19.40 | 17.94 |
| P27708 | CAD | 15.62 | 16.68 | 17.18 | 16.03 | 15.47 |
| P62158 | CALM1 | 20.98 | 21.17 | 20.58 | 20.44 | 19.38 |
| P27797 | CALR | 23.53 | 23.46 | 24.29 | 23.33 | 23.72 |
| Q13555 | CAMK2G | 15.79 | 16.65 | 16.44 | 16.37 | 16.30 |
| P49913 | CAMP | 22.45 | 22.89 | 23.35 | 22.19 | 21.68 |
| Q86VP6 | CAND1 | 16.65 | 16.50 | 16.92 | 16.57 | 15.49 |
| P27824 | CANX | 23.41 | 23.57 | 23.69 | 23.11 | 23.20 |
| Q01518 | CAP1 | 19.92 | 19.04 | 20.35 | 19.95 | 19.74 |
| P40121 | CAPG | 15.79 | 16.12 | 17.35 | 16.58 | 15.78 |
| P07384 | CAPN1 | 16.74 | 16.18 | 18.31 | 16.99 | 17.31 |
| P17655 | CAPN2 | 14.92 | 15.97 | 16.13 | 16.64 | 16.19 |
| P52907 | CAPZA1 | 17.65 | 17.94 | 19.64 | 18.70 | 18.30 |
| P47756 | CAPZB | 17.05 | 16.07 | 18.22 | 17.83 | 17.12 |
| P31415 | CASQ1 | 21.67 | 18.53 | 17.78 | 16.48 | 22.88 |

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|--------|---------|-------|-------|-------|-------|-------|
| P04040 | CAT | 23.66 | 23.85 | 23.05 | 23.90 | 22.86 |
| Q03135 | CAV1 | 19.69 | 20.27 | 21.77 | 23.51 | 19.69 |
| P51636 | CAV2 | 16.18 | 16.22 | 17.13 | 19.17 | 18.94 |
| Q8NDH2 | CCDC168 | 15.85 | 16.37 | 15.98 | 16.62 | 16.77 |
| P78371 | CCT2 | 16.86 | 16.10 | 17.73 | 17.29 | 17.07 |
| P49368 | CCT3 | 16.57 | 16.57 | 17.38 | 17.38 | 17.48 |
| P50991 | CCT4 | 15.46 | 15.96 | 16.01 | 17.36 | 15.56 |
| P48643 | CCT5 | 17.83 | 15.99 | 18.33 | 17.60 | 17.57 |
| P40227 | CCT6A | 17.81 | 17.41 | 17.20 | 17.03 | 16.07 |
| P50990 | CCT8 | 18.30 | 17.06 | 18.05 | 17.97 | 16.23 |
| Q93033 | CD101 | 16.46 | 15.90 | 18.92 | 16.90 | 15.91 |
| P08571 | CD14 | 18.56 | 17.21 | 21.42 | 17.67 | 17.31 |
| Q8N6Q3 | CD177 | 18.13 | 17.82 | 19.17 | 17.10 | 17.97 |
| P16671 | CD36 | 21.98 | 22.04 | 22.10 | 22.76 | 21.16 |
| P16070 | CD44 | 20.27 | 20.44 | 21.34 | 20.90 | 20.36 |
| Q08722 | CD47 | 20.23 | 17.05 | 20.25 | 18.94 | 19.63 |
| P09326 | CD48 | 15.73 | 15.85 | 18.28 | 16.52 | 15.59 |
| P08174 | CD55 | 16.23 | 17.19 | 18.12 | 15.71 | 15.25 |
| P13987 | CD59 | 21.06 | 21.55 | 20.47 | 19.20 | 21.19 |
| O43866 | CD5L | 26.49 | 25.88 | 24.34 | 24.78 | 25.14 |
| P60033 | CD81 | 18.01 | 20.08 | 18.96 | 20.30 | 19.23 |
| P27701 | CD82 | 15.90 | 16.06 | 19.06 | 17.37 | 16.44 |
| P21926 | CD9 | 20.94 | 20.31 | 20.96 | 19.66 | 20.34 |
| Q9NPY3 | CD93 | 15.28 | 15.97 | 17.43 | 16.13 | 15.68 |
| P48960 | CD97 | 18.73 | 18.00 | 19.58 | 18.41 | 17.74 |
| P32320 | CDA | 15.67 | 16.38 | 16.01 | 16.29 | 16.62 |
| P60953 | CDC42 | 19.45 | 20.31 | 19.43 | 19.20 | 19.12 |
| Q99459 | CDC5L | 18.10 | 15.64 | 20.22 | 18.42 | 17.12 |
| P13688 | CEACAM1 | 19.30 | 18.37 | 20.97 | 18.72 | 19.94 |
| P31997 | CEACAM8 | 17.31 | 16.34 | 19.49 | 17.51 | 16.88 |

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|--------|---------|-------|-------|-------|-------|-------|
| P23141 | CES1 | 18.36 | 19.43 | 20.08 | 21.58 | 18.54 |
| P11597 | CETP | 16.80 | 16.43 | 17.80 | 17.17 | 15.89 |
| P00751 | CFB | 22.33 | 22.28 | 22.79 | 22.74 | 23.11 |
| P00746 | CFD | 18.62 | 19.43 | 18.63 | 17.72 | 19.66 |
| P08603 | CFH | 25.81 | 26.06 | 25.06 | 25.70 | 25.93 |
| Q03591 | CFHR1 | 22.89 | 22.63 | 21.58 | 21.65 | 18.11 |
| P36980 | CFHR2 | 17.58 | 16.39 | 16.45 | 15.58 | 15.67 |
| Q9BXR6 | CFHR5 | 16.47 | 15.40 | 16.31 | 16.95 | 15.98 |
| P05156 | CFI | 21.03 | 20.57 | 19.83 | 20.50 | 20.05 |
| P23528 | CFL1 | 22.18 | 21.86 | 22.21 | 21.95 | 22.03 |
| P27918 | CFP | 18.64 | 18.23 | 17.68 | 17.87 | 16.61 |
| P36222 | CHI3L1 | 15.61 | 16.30 | 17.37 | 17.57 | 15.80 |
| Q13231 | CHIT1 | 15.86 | 16.20 | 16.99 | 17.63 | 16.30 |
| Q99653 | CHP1 | 17.19 | 17.04 | 16.01 | 15.42 | 16.44 |
| Q99828 | CIB1 | 15.69 | 16.04 | 16.12 | 15.98 | 16.02 |
| Q07065 | CKAP4 | 17.23 | 17.29 | 19.46 | 18.05 | 17.51 |
| P12277 | CKB | 16.24 | 15.30 | 15.57 | 17.40 | 15.60 |
| P06732 | CKM | 19.14 | 16.34 | 19.40 | 18.18 | 19.35 |
| Q5QGZ9 | CLEC12A | 15.52 | 15.77 | 17.73 | 16.10 | 16.03 |
| P05452 | CLEC3B | 19.25 | 19.10 | 18.53 | 19.45 | 19.22 |
| Q9NY25 | CLEC5A | 15.39 | 16.00 | 16.58 | 14.37 | 16.29 |
| O00299 | CLIC1 | 20.24 | 20.47 | 20.72 | 20.55 | 20.67 |
| P09496 | CLTA | 15.56 | 16.56 | 15.73 | 17.58 | 15.11 |
| Q00610 | CLTC | 21.65 | 20.57 | 22.04 | 21.80 | 21.57 |
| P10909 | CLU | 27.07 | 26.99 | 26.59 | 26.57 | 27.56 |
| Q96KP4 | CNDP2 | 15.88 | 16.48 | 15.89 | 15.44 | 17.72 |
| Q99439 | CNN2 | 16.20 | 15.60 | 16.45 | 16.91 | 16.04 |
| P09543 | CNP | 16.13 | 16.53 | 18.60 | 15.67 | 15.66 |
| Q9BT09 | CNPY3 | 15.72 | 16.03 | 16.93 | 16.47 | 16.39 |
| Q99715 | COL12A1 | 16.12 | 15.97 | 16.70 | 16.18 | 15.35 |

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| Q05707 | COL14A1 | 18.91 | 17.25 | 18.30 | 17.93 | 19.22 |
| P02452 | COL1A1 | 16.74 | 16.79 | 17.00 | 15.71 | 18.81 |
| P08123 | COL1A2 | 15.73 | 15.29 | 17.08 | 16.37 | 16.60 |
| P02461 | COL3A1 | 16.21 | 15.60 | 15.85 | 16.72 | 16.02 |
| P12109 | COL6A1 | 17.40 | 18.52 | 20.14 | 19.28 | 20.15 |
| P12110 | COL6A2 | 17.55 | 17.89 | 19.06 | 18.87 | 18.59 |
| P12111 | COL6A3 | 20.53 | 20.55 | 22.15 | 21.29 | 21.43 |
| Q9BWP8 | COLEC11 | 15.71 | 16.03 | 17.48 | 15.04 | 16.78 |
| Q8NBJ5 | COLGALT1 | 15.76 | 16.61 | 16.50 | 16.15 | 15.65 |
| P49747 | COMP | 20.61 | 20.99 | 19.48 | 18.72 | 20.37 |
| P21964 | COMT | 17.94 | 17.35 | 18.33 | 17.14 | 18.54 |
| P53621 | COPA | 17.22 | 16.25 | 18.12 | 17.62 | 17.18 |
| P53618 | COPB1 | 16.32 | 15.91 | 16.61 | 15.93 | 15.67 |
| P35606 | COPB2 | 15.70 | 16.01 | 16.19 | 16.87 | 15.42 |
| O14579 | COPE | 16.95 | 16.58 | 17.35 | 16.05 | 16.61 |
| P31146 | CORO1A | 20.76 | 19.04 | 20.86 | 20.70 | 19.03 |
| P57737 | CORO7 | 16.13 | 16.66 | 15.82 | 15.29 | 16.06 |
| Q14019 | COTL1 | 16.02 | 15.53 | 16.79 | 16.16 | 15.76 |
| P00450 | CP | 27.96 | 28.11 | 27.78 | 28.15 | 27.87 |
| Q96IY4 | CPB2 | 19.70 | 20.34 | 18.96 | 19.07 | 18.95 |
| P15169 | CPN1 | 16.49 | 15.58 | 16.31 | 16.33 | 16.58 |
| P22792 | CPN2 | 18.50 | 15.91 | 18.46 | 17.35 | 19.22 |
| Q99829 | CPNE1 | 20.38 | 18.04 | 20.49 | 19.04 | 18.99 |
| Q96FN4 | CPNE2 | 16.79 | 16.26 | 17.78 | 16.42 | 16.20 |
| O75131 | CPNE3 | 21.66 | 21.28 | 20.96 | 21.39 | 20.79 |
| P17927 | CR1 | 19.68 | 20.26 | 21.80 | 20.22 | 19.86 |
| P54108 | CRISP3 | 16.20 | 15.93 | 17.04 | 17.96 | 16.10 |
| P02741 | CRP | 19.41 | 17.24 | 18.50 | 20.46 | 20.58 |
| Q9NQ79 | CRTAC1 | 16.82 | 17.43 | 19.29 | 17.37 | 19.54 |
| P02511 | CRYAB | 20.20 | 21.23 | 20.57 | 21.92 | 21.20 |

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| P41240 | CSK | 15.99 | 15.56 | 16.57 | 16.32 | 16.16 |
| P50461 | CSRP3 | 17.49 | 16.26 | 15.75 | 17.22 | 16.34 |
| P01040 | CSTA | 15.83 | 16.10 | 17.12 | 16.71 | 16.15 |
| P07339 | CTSD | 16.66 | 16.64 | 16.67 | 17.56 | 17.43 |
| P08311 | CTSG | 23.83 | 23.95 | 23.34 | 23.92 | 24.04 |
| P25774 | CTSS | 15.99 | 15.64 | 16.46 | 16.29 | 16.34 |
| P25025 | CXCR2 | 17.43 | 17.33 | 15.48 | 15.61 | 16.00 |
| P00167 | CYB5A | 16.20 | 16.59 | 16.57 | 17.07 | 15.32 |
| O43169 | CYB5B | 15.70 | 16.14 | 17.66 | 16.70 | 15.99 |
| P00387 | CYB5R3 | 20.06 | 19.93 | 20.51 | 19.59 | 19.79 |
| P13498 | CYBA | 21.21 | 21.81 | 21.74 | 21.25 | 21.82 |
| P04839 | CYBB | 22.69 | 23.01 | 23.44 | 22.96 | 22.64 |
| Q7L576 | CYFIP1 | 15.82 | 15.95 | 16.14 | 16.03 | 15.83 |
| Q96F07 | CYFIP2 | 18.56 | 18.59 | 18.88 | 17.75 | 17.82 |
| Q08477 | CYP4F3 | 20.75 | 20.95 | 21.20 | 20.39 | 20.78 |
| Q9H1C7 | CYSTM1 | 17.49 | 17.93 | 15.82 | 16.51 | 15.90 |
| Q8NCG7 | DAGLB | 15.66 | 16.62 | 16.11 | 15.50 | 16.10 |
| P07585 | DCN | 20.70 | 21.52 | 20.88 | 20.60 | 20.87 |
| P39656 | DDOST | 20.68 | 20.06 | 20.54 | 20.36 | 19.95 |
| P59666 | DEFA3 | 21.60 | 22.58 | 18.93 | 21.24 | 20.98 |
| Q9Y315 | DERA | 16.38 | 16.40 | 15.48 | 16.00 | 15.40 |
| P17661 | DES | 17.34 | 15.98 | 15.76 | 15.06 | 15.61 |
| Q9UBM7 | DHCR7 | 15.84 | 15.43 | 16.51 | 16.26 | 15.85 |
| Q9Y394 | DHRS7 | 19.55 | 20.24 | 20.46 | 19.71 | 19.41 |
| Q08211 | DHX9 | 15.48 | 15.45 | 17.02 | 16.13 | 16.03 |
| O60610 | DIAPH1 | 16.57 | 15.53 | 17.38 | 16.79 | 16.15 |
| P36957 | DLST | 16.24 | 15.78 | 18.30 | 17.05 | 15.85 |
| Q9UBS4 | DNAJB11 | 16.44 | 15.48 | 17.17 | 15.62 | 15.70 |
| O75165 | DNAJC13 | 16.90 | 16.23 | 18.08 | 17.03 | 17.19 |
| P50570 | DNM2 | 15.05 | 16.16 | 17.10 | 16.85 | 16.70 |

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| Q92608 | DOCK2 | 16.19 | 15.66 | 18.63 | 17.58 | 17.71 |
| Q8NF50 | DOCK8 | 15.61 | 16.01 | 16.62 | 15.50 | 15.39 |
| Q16555 | DPYSL2 | 16.76 | 16.64 | 18.06 | 17.24 | 16.39 |
| Q08554 | DSC1 | 16.27 | 16.45 | 16.93 | 16.24 | 15.35 |
| P15924 | DSP | 15.52 | 16.31 | 16.74 | 17.00 | 17.83 |
| P60981 | DSTN | 16.30 | 15.84 | 16.21 | 17.10 | 16.11 |
| Q14204 | DYNC1H1 | 16.29 | 16.76 | 16.52 | 17.40 | 16.15 |
| O75923 | DYSF | 20.43 | 19.44 | 22.33 | 20.57 | 20.40 |
| Q16610 | ECM1 | 20.62 | 21.13 | 20.31 | 20.68 | 19.78 |
| P68104 | EEF1A1 | 21.66 | 21.80 | 22.16 | 22.10 | 22.12 |
| Q05639 | EEF1A2 | 18.04 | 16.53 | 17.53 | 17.90 | 16.17 |
| P26641 | EEF1G | 16.51 | 16.49 | 16.33 | 16.27 | 17.67 |
| P13639 | EEF2 | 16.75 | 16.35 | 18.65 | 17.01 | 17.36 |
| Q12805 | EFEMP1 | 16.41 | 16.66 | 17.97 | 16.61 | 15.27 |
| Q96C19 | EFHD2 | 15.98 | 15.62 | 15.92 | 15.28 | 16.36 |
| Q9H4M9 | EHD1 | 20.47 | 20.89 | 21.10 | 21.06 | 20.92 |
| Q9NZN4 | EHD2 | 18.52 | 19.78 | 20.54 | 21.82 | 20.26 |
| Q9H223 | EHD4 | 16.00 | 16.22 | 16.03 | 15.82 | 15.84 |
| Q99613 | EIF3C | 16.31 | 15.55 | 15.62 | 16.38 | 16.66 |
| P60842 | EIF4A1 | 16.67 | 16.23 | 17.27 | 16.82 | 16.83 |
| P08246 | ELANE | 18.72 | 19.75 | 20.36 | 19.58 | 19.20 |
| Q92556 | ELMO1 | 16.07 | 16.22 | 17.09 | 15.81 | 15.66 |
| Q6PCB8 | EMB | 16.83 | 16.13 | 16.84 | 16.25 | 16.22 |
| Q9UHX3 | EMR2 | 15.94 | 15.85 | 16.21 | 15.93 | 15.18 |
| Q9BY15 | EMR3 | 15.86 | 15.67 | 18.33 | 17.64 | 15.42 |
| P06733 | ENO1 | 22.32 | 22.52 | 23.11 | 22.68 | 23.23 |
| P13929 | ENO3 | 17.38 | 16.93 | 17.70 | 17.45 | 16.26 |
| Q9Y6X5 | ENPP4 | 16.17 | 16.07 | 15.86 | 16.65 | 16.01 |
| P11171 | EPB41 | 19.28 | 19.43 | 19.40 | 18.48 | 17.31 |
| P16452 | EPB42 | 20.75 | 20.77 | 20.29 | 20.24 | 19.18 |

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| P07099 | EPHX1 | 21.13 | 21.50 | 21.68 | 22.47 | 20.76 |
| P11678 | EPX | 16.82 | 18.20 | 19.20 | 16.27 | 18.34 |
| Q9NZ08 | ERAP1 | 16.63 | 16.36 | 18.27 | 17.22 | 15.26 |
| Q96RT1 | ERBB2IP | 16.23 | 16.72 | 17.43 | 16.95 | 16.51 |
| Q969X5 | ERGIC1 | 15.90 | 15.40 | 16.09 | 15.97 | 15.72 |
| O75477 | ERLIN1 | 17.79 | 17.47 | 19.11 | 18.38 | 16.26 |
| O94905 | ERLIN2 | 17.23 | 15.66 | 18.14 | 17.46 | 16.50 |
| Q96HE7 | ERO1L | 16.52 | 15.10 | 18.78 | 17.16 | 17.43 |
| P30040 | ERP29 | 20.74 | 20.22 | 21.71 | 20.60 | 20.81 |
| Q9BS26 | ERP44 | 20.04 | 19.73 | 20.83 | 19.86 | 19.63 |
| P10768 | ESD | 18.00 | 17.16 | 17.11 | 17.08 | 18.15 |
| Q9BSJ8 | ESYT1 | 16.85 | 16.78 | 19.29 | 18.08 | 16.99 |
| A0FGR8 | ESYT2 | 15.65 | 16.40 | 16.68 | 16.11 | 15.91 |
| P34910 | EVI2B | 18.31 | 17.82 | 20.23 | 19.10 | 18.18 |
| P15311 | EZR | 15.97 | 16.77 | 17.76 | 16.05 | 16.89 |
| P00742 | F10 | 22.08 | 20.09 | 19.20 | 22.25 | 22.53 |
| P03951 | F11 | 16.63 | 16.28 | 16.48 | 15.63 | 15.26 |
| Q9Y624 | F11R | 16.69 | 16.22 | 18.74 | 15.80 | 17.38 |
| P00748 | F12 | 16.97 | 16.93 | 18.62 | 19.12 | 18.40 |
| P00488 | F13A1 | 20.28 | 19.82 | 20.30 | 20.32 | 20.43 |
| P05160 | F13B | 17.11 | 16.00 | 17.79 | 17.42 | 16.07 |
| P00734 | F2 | 26.49 | 25.97 | 24.81 | 26.05 | 26.59 |
| P12259 | F5 | 18.05 | 17.47 | 20.25 | 17.96 | 19.50 |
| P00740 | F9 | 21.10 | 20.81 | 20.12 | 21.32 | 21.63 |
| P15090 | FABP4 | 20.61 | 21.87 | 21.58 | 22.39 | 21.85 |
| Q9NUU6 | FAM105A | 16.12 | 15.59 | 17.67 | 16.22 | 15.19 |
| Q9BRX8 | FAM213A | 16.54 | 17.78 | 18.48 | 18.11 | 17.00 |
| Q9NUQ9 | FAM49B | 17.21 | 16.89 | 18.86 | 18.02 | 15.79 |
| P49327 | FASN | 18.63 | 17.39 | 19.32 | 21.54 | 16.60 |
| P23142 | FBLN1 | 21.16 | 20.44 | 21.91 | 21.07 | 20.66 |

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| P35555 | FBN1 | 16.64 | 16.52 | 18.47 | 16.91 | 17.27 |
| P24071 | FCAR | 18.12 | 18.50 | 18.50 | 19.70 | 16.89 |
| P30273 | FCER1G | 16.49 | 16.58 | 19.31 | 15.72 | 16.06 |
| Q9Y6R7 | FCGBP | 21.30 | 20.91 | 22.01 | 20.91 | 21.14 |
| P12318 | FCGR2A | 17.62 | 18.17 | 19.05 | 18.03 | 16.76 |
| O75015 | FCGR3B | 21.64 | 22.19 | 23.01 | 22.07 | 21.04 |
| P55899 | FCGRT | 17.31 | 16.37 | 17.58 | 16.99 | 15.89 |
| O00602 | FCN1 | 20.15 | 21.30 | 20.03 | 18.82 | 16.46 |
| Q15485 | FCN2 | 18.59 | 17.03 | 21.96 | 19.50 | 18.55 |
| O75636 | FCN3 | 23.33 | 24.28 | 23.08 | 23.48 | 23.67 |
| Q96AC1 | FERMT2 | 16.52 | 16.81 | 16.27 | 16.59 | 15.64 |
| Q86UX7 | FERMT3 | 20.64 | 20.92 | 20.92 | 20.59 | 20.67 |
| Q9UGM5 | FETUB | 16.45 | 15.85 | 18.45 | 17.81 | 17.11 |
| P02671 | FGA | 27.77 | 28.37 | 27.54 | 28.74 | 27.82 |
| P02675 | FGB | 29.07 | 29.51 | 28.71 | 29.44 | 28.67 |
| P02679 | FGG | 28.85 | 29.18 | 29.05 | 29.45 | 28.83 |
| P09769 | FGR | 19.41 | 19.94 | 19.98 | 19.85 | 19.82 |
| Q13642 | FHL1 | 20.19 | 19.93 | 19.78 | 19.70 | 20.03 |
| P26885 | FKBP2 | 15.67 | 15.80 | 17.26 | 16.79 | 15.77 |
| Q5D862 | FLG2 | 16.74 | 15.51 | 16.50 | 18.07 | 16.44 |
| P21333 | FLNA | 21.62 | 20.52 | 22.94 | 21.88 | 21.12 |
| Q14315 | FLNC | 16.92 | 16.28 | 16.00 | 15.34 | 15.42 |
| O75955 | FLOT1 | 20.20 | 19.92 | 21.43 | 20.39 | 19.86 |
| Q14254 | FLOT2 | 20.78 | 20.63 | 21.59 | 21.06 | 20.04 |
| O95466 | FMNL1 | 17.43 | 16.67 | 19.41 | 18.76 | 17.61 |
| P02751 | FN1 | 27.77 | 28.31 | 27.85 | 26.59 | 27.57 |
| P02794 | FTH1 | 20.05 | 19.41 | 18.11 | 19.56 | 20.70 |
| P02792 | FTL | 20.78 | 19.12 | 19.19 | 20.52 | 20.32 |
| P11413 | G6PD | 18.95 | 17.01 | 18.90 | 19.20 | 17.87 |
| Q14697 | GANAB | 20.16 | 19.90 | 21.26 | 20.10 | 19.82 |

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|--------|--------|-------|-------|-------|-------|-------|
| P04406 | GAPDH | 25.43 | 25.41 | 25.06 | 25.62 | 25.79 |
| P02774 | GC | 23.56 | 23.31 | 23.14 | 23.68 | 24.01 |
| P28676 | GCA | 23.77 | 23.64 | 22.91 | 23.08 | 23.07 |
| P50395 | GDI2 | 17.33 | 16.76 | 20.53 | 19.24 | 18.09 |
| P36269 | GGT5 | 16.92 | 15.94 | 16.81 | 15.97 | 15.80 |
| Q92896 | GLG1 | 15.75 | 16.05 | 16.22 | 15.85 | 15.55 |
| Q9H4G4 | GLIPR2 | 20.84 | 21.02 | 21.53 | 21.18 | 20.59 |
| P35754 | GLRX | 15.79 | 16.65 | 15.97 | 16.70 | 15.97 |
| O60234 | GMFG | 16.09 | 16.74 | 15.65 | 15.52 | 16.08 |
| Q14344 | GNA13 | 17.12 | 17.45 | 18.55 | 16.93 | 16.81 |
| P04899 | GNAI2 | 23.95 | 24.31 | 24.10 | 23.86 | 23.79 |
| P08754 | GNAI3 | 17.12 | 17.04 | 19.28 | 17.34 | 18.56 |
| P50148 | GNAQ | 16.59 | 16.22 | 18.03 | 17.43 | 16.79 |
| P63092 | GNAS | 17.54 | 16.79 | 19.03 | 18.90 | 17.08 |
| P62873 | GNB1 | 20.63 | 21.12 | 20.97 | 21.05 | 19.58 |
| P62879 | GNB2 | 22.97 | 23.04 | 22.91 | 22.91 | 22.57 |
| P63244 | GNB2L1 | 16.16 | 15.66 | 16.21 | 16.81 | 17.31 |
| Q9HAV0 | GNB4 | 16.32 | 16.41 | 18.02 | 17.41 | 15.97 |
| P63218 | GNG5 | 15.65 | 15.67 | 18.12 | 15.49 | 16.45 |
| P13224 | GP1BB | 16.92 | 16.27 | 16.96 | 15.87 | 16.04 |
| P21695 | GPD1 | 16.77 | 19.09 | 19.48 | 21.05 | 19.03 |
| P06744 | GPI | 19.25 | 19.31 | 20.11 | 19.89 | 18.93 |
| P80108 | GPLD1 | 16.40 | 15.61 | 15.95 | 15.73 | 18.43 |
| Q86Y34 | GPR97 | 16.69 | 17.10 | 18.95 | 17.67 | 17.23 |
| Q9Y4H4 | GPSM3 | 15.72 | 16.45 | 16.31 | 16.57 | 15.86 |
| P07203 | GPX1 | 17.04 | 17.18 | 17.47 | 17.91 | 16.83 |
| P22352 | GPX3 | 16.38 | 17.04 | 15.40 | 16.05 | 15.21 |
| P62993 | GRB2 | 16.23 | 16.97 | 17.63 | 16.69 | 15.61 |
| P43250 | GRK6 | 16.19 | 16.80 | 17.25 | 16.24 | 17.17 |
| P06396 | GSN | 24.74 | 24.51 | 25.26 | 24.56 | 24.73 |

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| Q9Y2Q3 | GSTK1 | 15.35 | 16.76 | 15.56 | 16.96 | 16.13 |
| P28161 | GSTM2 | 15.40 | 15.44 | 15.87 | 16.99 | 15.20 |
| P09211 | GSTP1 | 19.16 | 19.07 | 20.85 | 20.12 | 20.79 |
| P08236 | GUSB | 16.10 | 15.96 | 15.98 | 16.30 | 15.17 |
| P46976 | GYG1 | 17.08 | 15.47 | 16.33 | 15.94 | 17.18 |
| P02724 | GYPA | 16.06 | 17.58 | 15.33 | 17.35 | 16.49 |
| P13807 | GYS1 | 19.00 | 17.39 | 17.01 | 17.66 | 18.36 |
| Q71UI9 | H2AFV | 18.70 | 19.84 | 17.30 | 18.13 | 18.80 |
| O75367 | H2AFY | 19.85 | 20.66 | 19.18 | 20.02 | 20.33 |
| O95479 | H6PD | 16.02 | 16.34 | 16.57 | 17.29 | 16.58 |
| Q14520 | HABP2 | 25.24 | 25.65 | 24.47 | 24.95 | 25.44 |
| Q16836 | HADH | 15.90 | 16.66 | 16.29 | 17.08 | 16.08 |
| P40939 | HADHA | 16.36 | 15.71 | 17.17 | 17.47 | 15.90 |
| P69905 | HBA1 | 27.78 | 28.30 | 27.41 | 27.88 | 28.63 |
| P68871 | HBB | 28.47 | 28.77 | 28.01 | 28.45 | 28.91 |
| P02042 | HBD | 22.00 | 22.85 | 20.89 | 21.96 | 23.03 |
| P69892 | HBG2 | 17.36 | 15.53 | 16.68 | 18.05 | 17.75 |
| P08631 | HCK | 18.58 | 18.87 | 20.29 | 19.23 | 18.29 |
| Q99878 | HIST1H2AJ | 25.53 | 25.39 | 25.63 | 25.47 | 26.17 |
| Q99879 | HIST1H2BM | 25.28 | 25.73 | 25.23 | 25.45 | 26.05 |
| P62805 | HIST1H4A | 27.61 | 27.93 | 27.68 | 27.85 | 28.04 |
| Q71DI3 | HIST2H3A | 25.67 | 25.27 | 26.33 | 25.60 | 25.90 |
| P52790 | HK3 | 15.91 | 15.72 | 16.32 | 15.93 | 16.74 |
| P01892 | HLA-A | 20.31 | 21.08 | 20.59 | 21.59 | 20.16 |
| P04439 | HLA-A | 15.35 | 15.68 | 17.50 | 15.00 | 16.15 |
| P05534 | HLA-A | 15.90 | 15.90 | 17.64 | 15.93 | 16.34 |
| P18463 | HLA-B | 19.73 | 20.77 | 22.25 | 21.38 | 21.14 |
| P30508 | HLA-C | 17.05 | 16.19 | 18.35 | 17.79 | 19.23 |
| P01903 | HLA-DRA | 16.55 | 18.01 | 19.50 | 18.15 | 18.61 |
| Q5Y7A7 | HLA-DRB1 | 15.76 | 16.55 | 18.26 | 17.81 | 16.74 |

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| P79483 | HLA-DRB3 | 16.27 | 15.88 | 16.34 | 15.01 | 15.74 |
| Q8TCT9 | HM13 | 15.75 | 15.93 | 16.83 | 15.60 | 15.61 |
| P09429 | HMGB1 | 18.45 | 17.98 | 16.99 | 19.35 | 16.85 |
| P26583 | HMGB2 | 20.22 | 19.15 | 15.85 | 19.29 | 19.35 |
| Q92619 | HMHA1 | 15.95 | 15.61 | 15.97 | 15.67 | 15.25 |
| P07910 | HNRNPC | 18.67 | 18.05 | 17.25 | 19.39 | 17.65 |
| Q14103 | HNRNPD | 17.51 | 17.00 | 19.43 | 17.91 | 16.95 |
| P31943 | HNRNPH1 | 15.35 | 15.54 | 16.22 | 16.99 | 15.74 |
| P61978 | HNRNPK | 15.98 | 15.97 | 18.17 | 17.66 | 17.86 |
| Q00839 | HNRNPU | 17.38 | 18.11 | 17.00 | 17.59 | 17.34 |
| P00738 | HP | 27.24 | 28.30 | 25.94 | 27.44 | 27.92 |
| P00739 | HPR | 24.00 | 23.03 | 22.28 | 22.09 | 22.99 |
| P02790 | HPX | 24.17 | 24.34 | 24.52 | 24.91 | 24.92 |
| P04196 | HRG | 23.26 | 22.65 | 22.98 | 22.86 | 23.04 |
| Q8NBQ5 | HSD17B11 | 18.74 | 18.79 | 19.11 | 17.84 | 17.84 |
| Q53GQ0 | HSD17B12 | 16.63 | 16.70 | 19.16 | 17.90 | 17.84 |
| P51659 | HSD17B4 | 16.33 | 16.07 | 18.30 | 17.62 | 16.28 |
| P07900 | HSP90AA1 | 20.86 | 19.31 | 19.44 | 21.48 | 20.97 |
| P08238 | HSP90AB1 | 18.36 | 15.93 | 19.10 | 19.01 | 17.97 |
| P14625 | HSP90B1 | 22.09 | 21.67 | 23.15 | 22.24 | 22.04 |
| P08107 | HSPA1A | 21.25 | 20.85 | 21.56 | 21.23 | 21.53 |
| P11021 | HSPA5 | 22.43 | 22.12 | 23.67 | 22.47 | 22.48 |
| P11142 | HSPA8 | 21.76 | 21.26 | 22.21 | 21.65 | 21.63 |
| P04792 | HSPB1 | 18.78 | 18.97 | 18.39 | 18.80 | 18.82 |
| O14558 | HSPB6 | 17.29 | 16.04 | 16.39 | 18.98 | 15.35 |
| P10809 | HSPD1 | 16.06 | 16.27 | 17.44 | 17.94 | 16.04 |
| P98160 | HSPG2 | 16.75 | 16.30 | 18.56 | 17.98 | 16.13 |
| Q92743 | HTRA1 | 15.76 | 15.94 | 16.59 | 15.07 | 15.28 |
| Q96D96 | HVCN1 | 15.53 | 16.63 | 17.44 | 16.00 | 15.03 |
| Q9Y4L1 | HYOU1 | 16.16 | 15.96 | 16.98 | 15.57 | 15.45 |

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| P05362 | ICAM1 | 16.21 | 15.52 | 15.98 | 15.58 | 15.45 |
| P32942 | ICAM3 | 21.34 | 21.41 | 22.17 | 21.55 | 21.00 |
| O75874 | IDH1 | 16.76 | 15.62 | 17.84 | 17.60 | 16.31 |
| P48735 | IDH2 | 16.07 | 16.60 | 17.57 | 17.49 | 16.98 |
| Q01628 | IFITM3 | 15.42 | 16.68 | 16.10 | 16.22 | 15.77 |
| P11717 | IGF2R | 17.97 | 18.07 | 18.78 | 18.92 | 16.40 |
| P35858 | IGFALS | 17.23 | 16.00 | 17.22 | 16.96 | 18.40 |
| P01876 | IGHA1 | 27.34 | 27.38 | 26.61 | 27.01 | 27.34 |
| P01877 | IGHA2 | 21.54 | 21.57 | 20.91 | 20.31 | 21.28 |
| P01880 | IGHD | 17.17 | 18.38 | 17.33 | 15.12 | 18.05 |
| P01857 | IGHG1 | 29.04 | 29.27 | 28.76 | 29.08 | 28.96 |
| P01859 | IGHG2 | 27.69 | 27.75 | 27.50 | 27.43 | 27.91 |
| P01860 | IGHG3 | 26.19 | 25.79 | 24.77 | 25.94 | 25.29 |
| P01861 | IGHG4 | 23.15 | 24.99 | 23.40 | 25.07 | 24.08 |
| P01871 | IGHM | 29.43 | 29.05 | 29.03 | 28.85 | 29.17 |
| P01764 | IGHV3-23 | 25.30 | 25.20 | 24.64 | 23.87 | 24.46 |
| P01591 | IGJ | 25.72 | 24.99 | 24.81 | 24.33 | 25.14 |
| P01834 | IGKC | 27.89 | 27.95 | 27.77 | 27.91 | 27.98 |
| P01602 | IGKV1-5 | 15.35 | 15.16 | 19.56 | 15.92 | 15.50 |
| P0CG05 | IGLC2 | 27.41 | 27.74 | 26.95 | 27.18 | 27.21 |
| B9A064 | IGLL5 | 24.71 | 23.72 | 23.78 | 24.10 | 21.46 |
| Q13418 | ILK | 16.97 | 16.86 | 17.82 | 18.27 | 17.42 |
| P46940 | IQGAP1 | 17.19 | 15.76 | 19.78 | 18.03 | 17.86 |
| P08514 | ITGA2B | 21.61 | 20.79 | 20.79 | 20.72 | 20.85 |
| P08648 | ITGA5 | 16.07 | 15.49 | 17.36 | 16.00 | 15.92 |
| P23229 | ITGA6 | 17.54 | 16.39 | 16.08 | 16.28 | 15.43 |
| P20701 | ITGAL | 17.76 | 18.61 | 19.72 | 16.83 | 15.92 |
| P11215 | ITGAM | 24.65 | 24.87 | 25.33 | 24.67 | 24.82 |
| P20702 | ITGAX | 17.61 | 17.99 | 19.70 | 17.59 | 16.65 |
| P05556 | ITGB1 | 17.89 | 16.37 | 18.98 | 17.94 | 17.74 |

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|--------|--------|-------|-------|-------|-------|-------|
| P05107 | ITGB2 | 24.65 | 25.10 | 24.91 | 24.62 | 24.59 |
| P05106 | ITGB3 | 21.54 | 21.04 | 20.30 | 20.35 | 20.14 |
| P19827 | ITIH1 | 25.17 | 24.87 | 24.74 | 24.88 | 25.76 |
| P19823 | ITIH2 | 25.69 | 25.48 | 25.66 | 25.67 | 26.66 |
| Q06033 | ITIH3 | 21.17 | 21.15 | 21.39 | 21.91 | 21.62 |
| Q14624 | ITIH4 | 23.69 | 23.70 | 23.19 | 23.75 | 23.55 |
| Q14571 | ITPR2 | 16.20 | 15.95 | 15.88 | 16.03 | 15.24 |
| Q8IWB1 | ITPRIP | 15.59 | 16.07 | 16.31 | 15.60 | 15.92 |
| P14923 | JUP | 16.16 | 16.22 | 16.90 | 18.11 | 17.07 |
| Q13303 | KCNAB2 | 17.73 | 16.39 | 17.39 | 17.41 | 17.34 |
| Q96CX2 | KCTD12 | 15.75 | 14.77 | 16.40 | 16.12 | 15.77 |
| P03952 | KLKB1 | 19.62 | 19.21 | 19.95 | 19.54 | 19.63 |
| P01042 | KNG1 | 21.81 | 21.41 | 22.91 | 21.90 | 22.40 |
| Q14974 | KPNB1 | 16.93 | 15.62 | 17.35 | 17.73 | 16.39 |
| P01116 | KRAS | 15.50 | 17.15 | 16.95 | 17.32 | 16.01 |
| P04264 | KRT1 | 26.53 | 26.37 | 26.76 | 26.14 | 25.82 |
| P13645 | KRT10 | 25.65 | 25.66 | 25.50 | 24.87 | 24.09 |
| P13646 | KRT13 | 15.20 | 15.44 | 17.11 | 16.70 | 15.37 |
| P02533 | KRT14 | 20.42 | 18.68 | 22.01 | 20.06 | 19.20 |
| P08779 | KRT16 | 18.12 | 16.17 | 17.42 | 18.21 | 18.00 |
| P35908 | KRT2 | 25.09 | 24.58 | 24.85 | 23.63 | 22.70 |
| P19013 | KRT4 | 16.22 | 15.90 | 17.05 | 16.55 | 15.55 |
| P13647 | KRT5 | 19.21 | 18.80 | 21.11 | 19.09 | 18.17 |
| P02538 | KRT6A | 20.37 | 17.89 | 21.24 | 20.10 | 18.88 |
| Q7Z794 | KRT77 | 17.01 | 16.63 | 15.75 | 16.31 | 15.70 |
| P35527 | KRT9 | 24.85 | 23.74 | 25.49 | 24.71 | 23.94 |
| Q16363 | LAMA4 | 16.61 | 15.72 | 15.74 | 16.80 | 15.74 |
| P11047 | LAMC1 | 15.81 | 16.05 | 16.39 | 16.39 | 15.86 |
| P11279 | LAMP1 | 20.35 | 20.47 | 20.29 | 20.52 | 19.62 |
| P13473 | LAMP2 | 19.99 | 20.27 | 19.24 | 19.76 | 17.24 |

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|--------|----------|-------|-------|-------|-------|-------|
| Q9UHA4 | LAMTOR3 | 16.57 | 16.21 | 18.03 | 16.76 | 15.86 |
| P18428 | LBP | 20.44 | 21.01 | 22.79 | 21.41 | 20.92 |
| Q14739 | LBR | 19.69 | 19.08 | 19.59 | 18.85 | 18.41 |
| P80188 | LCN2 | 22.73 | 22.92 | 23.00 | 22.90 | 22.31 |
| P13796 | LCP1 | 19.68 | 19.71 | 21.66 | 20.72 | 19.73 |
| P00338 | LDHA | 19.78 | 20.16 | 20.55 | 19.77 | 19.80 |
| P07195 | LDHB | 18.44 | 16.40 | 18.24 | 17.79 | 17.52 |
| P09382 | LGALS1 | 20.76 | 21.04 | 20.84 | 21.71 | 20.81 |
| P17931 | LGALS3 | 16.72 | 16.76 | 17.78 | 17.35 | 16.39 |
| Q08380 | LGALS3BP | 24.20 | 24.46 | 23.63 | 23.71 | 24.45 |
| Q6PI73 | LILRA6 | 15.45 | 16.10 | 18.04 | 16.57 | 17.02 |
| Q8N423 | LILRB2 | 16.22 | 17.07 | 19.15 | 17.74 | 17.08 |
| O75022 | LILRB3 | 15.89 | 15.57 | 17.12 | 16.88 | 15.81 |
| Q05469 | LIPE | 16.42 | 17.32 | 18.27 | 18.09 | 15.86 |
| P49257 | LMAN1 | 18.13 | 18.31 | 18.53 | 18.12 | 17.53 |
| Q12907 | LMAN2 | 19.68 | 20.05 | 19.34 | 19.18 | 19.55 |
| P02545 | LMNA | 15.92 | 16.02 | 16.59 | 16.83 | 15.03 |
| Q9C0E8 | LNP | 15.41 | 16.46 | 17.48 | 17.43 | 15.76 |
| Q9UIQ6 | LNPEP | 15.42 | 16.04 | 17.26 | 17.27 | 15.31 |
| P08519 | LPA | 17.44 | 16.63 | 15.42 | 21.53 | 18.80 |
| Q7L5N7 | LPCAT2 | 18.76 | 18.99 | 19.49 | 18.67 | 18.23 |
| Q92604 | LPGAT1 | 16.55 | 16.62 | 18.53 | 17.34 | 16.32 |
| P02750 | LRG1 | 17.38 | 15.73 | 19.01 | 18.68 | 18.15 |
| Q07954 | LRP1 | 18.65 | 18.51 | 19.18 | 19.64 | 17.33 |
| Q8N386 | LRRC25 | 16.49 | 16.91 | 17.93 | 17.69 | 16.47 |
| P33241 | LSP1 | 15.79 | 15.12 | 16.40 | 16.51 | 15.76 |
| P09960 | LTA4H | 17.34 | 17.63 | 18.05 | 18.29 | 17.39 |
| Q15722 | LTB4R | 16.17 | 17.79 | 17.17 | 16.15 | 15.74 |
| P02788 | LTF | 28.31 | 28.79 | 27.90 | 28.33 | 28.11 |
| P51884 | LUM | 22.31 | 22.59 | 22.39 | 22.12 | 22.08 |

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|--------|---------|-------|-------|-------|-------|-------|
| O60449 | LY75 | 15.48 | 16.23 | 16.18 | 16.11 | 15.84 |
| P07948 | LYN | 19.08 | 19.41 | 20.87 | 19.67 | 18.94 |
| P61626 | LYZ | 22.79 | 23.48 | 23.13 | 22.68 | 23.80 |
| P20645 | M6PR | 15.42 | 16.38 | 16.31 | 15.92 | 15.40 |
| P33908 | MAN1A1 | 15.45 | 15.74 | 15.57 | 16.60 | 16.51 |
| P21397 | MAOA | 16.18 | 15.86 | 17.18 | 17.61 | 15.29 |
| P28482 | MAPK1 | 15.96 | 15.60 | 15.13 | 16.10 | 16.54 |
| Q16539 | MAPK14 | 15.44 | 16.14 | 15.92 | 15.32 | 16.04 |
| P29966 | MARCKS | 18.54 | 19.33 | 21.03 | 19.89 | 20.87 |
| P48740 | MASP1 | 21.05 | 21.08 | 17.78 | 20.31 | 18.42 |
| O00187 | MASP2 | 16.10 | 18.27 | 15.93 | 16.64 | 19.05 |
| P11226 | MBL2 | 18.28 | 18.20 | 17.02 | 16.27 | 15.59 |
| Q6ZWT7 | MBOAT2 | 16.05 | 16.72 | 16.56 | 15.87 | 15.62 |
| Q96N66 | MBOAT7 | 17.09 | 17.37 | 18.70 | 16.49 | 16.44 |
| P43121 | MCAM | 16.79 | 16.25 | 18.14 | 17.44 | 15.12 |
| Q8IX19 | MCEMP1 | 16.27 | 16.91 | 18.62 | 18.03 | 17.27 |
| Q8NI22 | MCFD2 | 17.23 | 16.50 | 17.78 | 16.46 | 16.47 |
| P40925 | MDH1 | 15.73 | 17.11 | 16.25 | 17.08 | 15.58 |
| P40926 | MDH2 | 16.22 | 16.15 | 15.86 | 15.62 | 16.02 |
| Q9H8H3 | METTL7A | 16.86 | 15.67 | 17.72 | 17.33 | 16.66 |
| P55083 | MFAP4 | 18.38 | 16.33 | 15.18 | 15.61 | 16.83 |
| Q08431 | MFGE8 | 15.96 | 16.68 | 16.23 | 15.59 | 15.99 |
| Q14728 | MFSD10 | 15.82 | 16.28 | 18.70 | 16.55 | 15.77 |
| O43451 | MGAM | 19.45 | 19.18 | 21.57 | 19.94 | 19.22 |
| Q99685 | MGLL | 16.41 | 15.52 | 16.70 | 17.81 | 15.80 |
| P10620 | MGST1 | 16.96 | 18.50 | 15.89 | 18.55 | 17.73 |
| Q14165 | MLEC | 16.73 | 16.35 | 18.85 | 17.71 | 16.62 |
| P08473 | MME | 18.05 | 16.34 | 19.28 | 18.21 | 16.45 |
| P08253 | MMP2 | 17.01 | 15.92 | 15.72 | 16.09 | 15.71 |
| Q9NPA2 | MMP25 | 16.98 | 15.66 | 18.82 | 17.11 | 17.29 |

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| P22894 | MMP8 | 18.28 | 17.92 | 20.61 | 19.24 | 19.24 |
| P14780 | MMP9 | 23.50 | 23.18 | 24.15 | 24.09 | 23.54 |
| Q13201 | MMRN1 | 17.26 | 15.65 | 18.56 | 16.00 | 16.72 |
| P41218 | MNDA | 20.50 | 21.09 | 20.22 | 20.41 | 21.51 |
| Q13724 | MOGS | 16.76 | 16.13 | 17.50 | 16.72 | 15.44 |
| Q8NHP6 | MOSPD2 | 16.32 | 16.00 | 17.85 | 16.37 | 15.74 |
| P05164 | MPO | 26.85 | 27.09 | 27.61 | 27.23 | 27.60 |
| Q00013 | MPP1 | 16.48 | 16.17 | 18.69 | 16.89 | 16.73 |
| P22897 | MRC1 | 16.20 | 16.06 | 16.92 | 16.95 | 15.72 |
| P26038 | MSN | 21.88 | 21.98 | 22.70 | 22.26 | 22.12 |
| P11586 | MTHFD1 | 15.70 | 15.41 | 17.24 | 18.17 | 17.22 |
| Q14764 | MVP | 24.62 | 24.55 | 24.64 | 24.66 | 24.67 |
| Q96S97 | MYADM | 17.27 | 16.63 | 16.03 | 16.24 | 15.77 |
| Q00872 | MYBPC1 | 19.22 | 19.03 | 18.86 | 18.67 | 18.35 |
| Q14324 | MYBPC2 | 16.53 | 16.66 | 16.67 | 15.19 | 16.42 |
| P12882 | MYH1 | 22.21 | 21.36 | 22.36 | 18.57 | 22.86 |
| P35749 | MYH11 | 15.53 | 15.41 | 15.63 | 16.33 | 15.92 |
| Q9UKX2 | MYH2 | 18.99 | 16.54 | 19.24 | 17.53 | 20.91 |
| Q9Y623 | MYH4 | 15.91 | 15.27 | 16.37 | 15.93 | 15.89 |
| P12883 | MYH7 | 18.75 | 17.86 | 18.63 | 18.32 | 19.74 |
| P35579 | MYH9 | 23.31 | 22.53 | 23.40 | 23.59 | 23.72 |
| P05976 | MYL1 | 20.49 | 19.07 | 20.00 | 17.92 | 20.12 |
| P19105 | MYL12A | 19.42 | 17.29 | 19.99 | 19.96 | 19.88 |
| P08590 | MYL3 | 17.63 | 16.33 | 16.41 | 17.71 | 16.27 |
| P60660 | MYL6 | 20.00 | 20.74 | 20.50 | 21.06 | 21.23 |
| Q96A32 | MYLPF | 18.02 | 17.04 | 17.86 | 17.14 | 18.88 |
| O00159 | MYO1C | 17.01 | 17.29 | 18.40 | 20.42 | 18.24 |
| O00160 | MYO1F | 20.53 | 20.05 | 20.37 | 20.11 | 20.08 |
| B0I1T2 | MYO1G | 17.96 | 18.25 | 20.10 | 19.12 | 17.42 |
| Q9NZM1 | MYOF | 15.31 | 16.31 | 17.21 | 16.47 | 15.35 |

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|--------|---------|-------|-------|-------|-------|-------|
| P54296 | MYOM2 | 16.77 | 16.03 | 16.89 | 15.92 | 15.66 |
| Q13765 | NACA | 16.99 | 16.02 | 15.81 | 16.76 | 15.52 |
| P43490 | NAMPT | 15.59 | 15.93 | 18.11 | 17.83 | 18.17 |
| Q99733 | NAP1L4 | 16.60 | 15.76 | 16.01 | 15.56 | 16.13 |
| P54920 | NAPA | 16.83 | 17.45 | 17.95 | 17.09 | 16.32 |
| P14598 | NCF1 | 17.25 | 16.18 | 18.18 | 17.64 | 17.53 |
| P19878 | NCF2 | 17.64 | 17.34 | 18.12 | 17.89 | 17.88 |
| Q15080 | NCF4 | 16.90 | 16.64 | 17.71 | 17.19 | 17.34 |
| P55160 | NCKAP1L | 17.70 | 17.78 | 17.26 | 16.63 | 16.57 |
| P19338 | NCL | 19.24 | 17.92 | 19.32 | 18.38 | 19.09 |
| P20929 | NEB | 16.72 | 15.34 | 15.84 | 15.60 | 15.95 |
| Q92982 | NINJ1 | 16.04 | 15.89 | 16.87 | 16.10 | 15.69 |
| P22392 | NME2 | 15.96 | 16.67 | 16.21 | 15.49 | 16.27 |
| Q15155 | NOMO1 | 15.91 | 16.29 | 15.77 | 15.51 | 16.52 |
| P06748 | NPM1 | 18.15 | 16.10 | 16.63 | 17.28 | 16.63 |
| Q9Y639 | NPTN | 15.85 | 16.47 | 17.18 | 15.56 | 15.74 |
| P01111 | NRAS | 16.07 | 15.85 | 18.09 | 17.06 | 15.75 |
| P21589 | NT5E | 15.72 | 16.20 | 16.04 | 16.18 | 15.61 |
| Q02818 | NUCB1 | 17.08 | 17.06 | 19.76 | 18.79 | 15.99 |
| P80303 | NUCB2 | 17.75 | 16.51 | 19.67 | 17.59 | 17.42 |
| P20774 | OGN | 21.87 | 22.06 | 21.67 | 21.64 | 21.56 |
| Q6UX06 | OLFM4 | 21.32 | 18.72 | 21.07 | 22.28 | 21.23 |
| P78380 | OLR1 | 15.71 | 16.52 | 16.34 | 16.95 | 16.52 |
| P02763 | ORM1 | 24.86 | 24.77 | 23.08 | 24.84 | 24.15 |
| P19652 | ORM2 | 23.62 | 23.34 | 23.62 | 23.23 | 23.02 |
| Q9BZF1 | OSBPL8 | 16.01 | 15.86 | 15.32 | 15.63 | 15.03 |
| Q92882 | OSTF1 | 18.33 | 17.61 | 20.01 | 19.06 | 19.34 |
| O95747 | OXSR1 | 16.45 | 16.39 | 16.27 | 16.43 | 16.50 |
| P07237 | P4HB | 23.95 | 23.94 | 24.67 | 23.90 | 23.73 |
| P11940 | PABPC1 | 16.52 | 16.18 | 15.48 | 15.79 | 15.73 |

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|--------|---------|-------|-------|-------|-------|-------|
| Q9UM07 | PADI4 | 18.34 | 16.45 | 17.88 | 17.81 | 18.73 |
| Q13177 | PAK2 | 15.01 | 15.59 | 15.93 | 14.98 | 15.77 |
| Q99497 | PARK7 | 16.04 | 15.52 | 16.62 | 16.79 | 16.81 |
| Q9UKK3 | PARP4 | 18.99 | 18.95 | 19.28 | 18.04 | 18.23 |
| Q9HBI0 | PARVG | 16.07 | 16.16 | 16.86 | 16.24 | 17.15 |
| Q15365 | PCBP1 | 15.65 | 15.38 | 16.95 | 17.65 | 15.96 |
| Q15366 | PCBP2 | 15.79 | 16.52 | 16.38 | 16.69 | 16.05 |
| Q15113 | PCOLCE | 18.60 | 18.65 | 16.88 | 17.47 | 18.26 |
| Q9UHG3 | PCYOX1 | 19.65 | 19.11 | 18.85 | 20.53 | 18.88 |
| O75340 | PDCD6 | 18.44 | 17.86 | 15.71 | 16.25 | 17.75 |
| Q8WUM4 | PDCD6IP | 18.26 | 17.91 | 19.41 | 18.14 | 17.61 |
| P30101 | PDIA3 | 23.41 | 23.32 | 23.85 | 23.08 | 23.15 |
| P13667 | PDIA4 | 18.03 | 18.78 | 20.01 | 19.30 | 17.67 |
| Q14554 | PDIA5 | 16.37 | 15.97 | 16.72 | 15.58 | 15.74 |
| Q15084 | PDIA6 | 19.45 | 18.33 | 20.76 | 19.88 | 19.32 |
| P30086 | PEBP1 | 15.77 | 16.70 | 16.82 | 16.92 | 15.98 |
| P16284 | PECAM1 | 19.61 | 19.32 | 20.75 | 19.84 | 18.73 |
| Q9UBV8 | PEF1 | 15.86 | 16.49 | 15.98 | 15.20 | 15.52 |
| P02776 | PF4 | 20.67 | 16.35 | 16.82 | 17.64 | 21.93 |
| P17858 | PFKL | 15.51 | 16.22 | 17.45 | 17.07 | 15.91 |
| P08237 | PFKM | 17.92 | 16.93 | 17.57 | 17.12 | 18.17 |
| P07737 | PFN1 | 22.53 | 22.73 | 22.65 | 22.49 | 22.27 |
| P18669 | PGAM1 | 16.33 | 16.93 | 17.99 | 17.37 | 17.36 |
| P52209 | PGD | 19.19 | 19.01 | 19.77 | 18.84 | 18.81 |
| P00558 | PGK1 | 20.82 | 21.13 | 21.22 | 21.13 | 21.63 |
| O75594 | PGLYRP1 | 20.49 | 20.35 | 20.66 | 20.53 | 20.44 |
| Q96PD5 | PGLYRP2 | 18.33 | 16.17 | 19.44 | 19.57 | 17.87 |
| P36871 | PGM1 | 16.99 | 15.83 | 16.80 | 17.47 | 17.10 |
| Q96G03 | PGM2 | 15.45 | 15.70 | 15.86 | 15.25 | 16.09 |
| O00264 | PGRMC1 | 16.34 | 15.53 | 18.39 | 18.89 | 16.08 |

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| O43175 | PHGDH | 16.80 | 16.02 | 17.43 | 18.03 | 15.56 |
| P46019 | PHKA2 | 16.26 | 15.58 | 16.00 | 16.19 | 15.22 |
| P01833 | PIGR | 17.75 | 17.10 | 19.81 | 16.31 | 16.40 |
| P14618 | PKM | 23.80 | 23.63 | 23.41 | 23.88 | 23.94 |
| P00749 | PLAU | 15.63 | 16.25 | 16.73 | 15.90 | 15.62 |
| Q03405 | PLAUR | 16.61 | 17.02 | 18.26 | 17.39 | 16.88 |
| Q6P4A8 | PLBD1 | 17.42 | 17.02 | 20.95 | 18.55 | 18.35 |
| P08567 | PLEK | 17.79 | 15.43 | 18.60 | 18.00 | 17.23 |
| Q8TD55 | PLEKHO2 | 16.91 | 16.21 | 18.07 | 16.67 | 16.46 |
| P00747 | PLG | 25.79 | 25.90 | 25.62 | 25.71 | 26.09 |
| O60240 | PLIN1 | 17.59 | 18.26 | 19.68 | 21.59 | 19.34 |
| Q96Q06 | PLIN4 | 17.78 | 17.70 | 21.21 | 21.68 | 17.13 |
| Q04941 | PLP2 | 17.82 | 19.74 | 16.25 | 15.62 | 16.39 |
| O15162 | PLSCR1 | 15.49 | 16.12 | 17.21 | 16.88 | 15.53 |
| P55058 | PLTP | 17.07 | 16.04 | 18.48 | 17.02 | 17.37 |
| O15031 | PLXNB2 | 15.87 | 16.45 | 16.42 | 15.40 | 15.91 |
| O60486 | PLXNC1 | 16.43 | 15.59 | 18.15 | 16.69 | 15.86 |
| P00491 | PNP | 16.39 | 17.20 | 17.36 | 16.81 | 17.31 |
| P27169 | PON1 | 19.51 | 19.16 | 21.65 | 21.13 | 22.34 |
| P16435 | POR | 16.97 | 15.58 | 18.42 | 17.60 | 16.96 |
| Q15063 | POSTN | 15.97 | 15.53 | 16.92 | 16.76 | 16.25 |
| P62937 | PPIA | 20.78 | 20.85 | 21.18 | 21.15 | 20.95 |
| P23284 | PPIB | 19.55 | 20.33 | 21.13 | 19.31 | 20.12 |
| P62136 | PPP1CA | 17.91 | 16.85 | 17.84 | 18.60 | 17.15 |
| P67775 | PPP2CA | 16.18 | 16.07 | 16.45 | 16.24 | 17.10 |
| P30153 | PPP2R1A | 17.11 | 15.93 | 17.51 | 17.51 | 17.06 |
| Q06830 | PRDX1 | 18.94 | 16.96 | 18.62 | 18.80 | 17.55 |
| P32119 | PRDX2 | 19.74 | 19.86 | 21.66 | 20.88 | 21.31 |
| P30048 | PRDX3 | 16.43 | 16.17 | 16.28 | 17.18 | 16.32 |
| P30044 | PRDX5 | 18.21 | 17.45 | 17.74 | 17.61 | 17.29 |

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| P30041 | PRDX6 | 19.95 | 20.01 | 21.25 | 20.92 | 21.05 |
| P51888 | PRELP | 19.54 | 20.14 | 20.04 | 19.09 | 20.08 |
| Q92954 | PRG4 | 17.23 | 18.14 | 19.89 | 17.72 | 19.31 |
| P10644 | PRKAR1A | 16.37 | 15.92 | 16.54 | 16.91 | 17.13 |
| P31323 | PRKAR2B | 16.41 | 15.70 | 16.03 | 16.72 | 15.36 |
| P05771 | PRKCB | 17.04 | 16.31 | 18.20 | 16.43 | 17.08 |
| Q05655 | PRKCD | 16.36 | 16.20 | 17.11 | 16.91 | 17.06 |
| Q969G5 | PRKCDBP | 16.64 | 16.03 | 15.84 | 17.37 | 15.86 |
| P14314 | PRKCSH | 20.05 | 19.29 | 20.61 | 19.79 | 19.53 |
| P78527 | PRKDC | 16.97 | 15.90 | 17.03 | 16.34 | 16.65 |
| P04070 | PROC | 19.74 | 17.07 | 15.80 | 19.94 | 19.53 |
| P07225 | PROS1 | 24.52 | 24.28 | 22.97 | 23.78 | 24.05 |
| P22891 | PROZ | 21.14 | 19.33 | 17.46 | 20.09 | 19.45 |
| Q6P2Q9 | PRPF8 | 16.42 | 15.47 | 16.27 | 16.11 | 15.57 |
| P60891 | PRPS1 | 17.25 | 15.38 | 16.08 | 16.71 | 16.78 |
| Q96M27 | PRRC1 | 15.88 | 16.49 | 16.70 | 15.79 | 15.61 |
| P24158 | PRTN3 | 19.60 | 20.04 | 18.78 | 19.63 | 19.82 |
| P07602 | PSAP | 18.42 | 18.16 | 16.98 | 18.79 | 16.44 |
| P25786 | PSMA1 | 16.56 | 15.36 | 17.56 | 15.45 | 16.59 |
| P25787 | PSMA2 | 17.08 | 16.74 | 18.10 | 18.26 | 16.70 |
| P25789 | PSMA4 | 16.06 | 16.46 | 17.02 | 15.95 | 16.28 |
| P28066 | PSMA5 | 17.68 | 15.38 | 18.40 | 20.19 | 18.71 |
| P60900 | PSMA6 | 17.25 | 17.79 | 18.64 | 18.42 | 16.13 |
| O14818 | PSMA7 | 16.53 | 16.34 | 16.85 | 16.68 | 16.39 |
| P20618 | PSMB1 | 16.04 | 16.23 | 16.70 | 15.72 | 15.80 |
| P49720 | PSMB3 | 16.62 | 15.45 | 17.17 | 16.44 | 15.65 |
| P28070 | PSMB4 | 16.54 | 16.12 | 16.98 | 17.15 | 15.75 |
| P28065 | PSMB9 | 16.41 | 16.49 | 17.37 | 15.49 | 17.13 |
| P35998 | PSMC2 | 16.66 | 15.69 | 16.34 | 16.85 | 16.39 |
| P43686 | PSMC4 | 15.24 | 16.39 | 15.70 | 16.13 | 15.17 |

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| P62195 | PSMC5 | 16.51 | 16.15 | 16.16 | 16.61 | 16.21 |
| P62333 | PSMC6 | 16.48 | 16.00 | 16.49 | 16.09 | 16.45 |
| Q99460 | PSMD1 | 17.09 | 16.33 | 16.69 | 16.48 | 16.46 |
| O00231 | PSMD11 | 16.95 | 16.72 | 16.22 | 17.03 | 15.61 |
| O00232 | PSMD12 | 15.94 | 15.97 | 15.78 | 15.94 | 15.46 |
| Q13200 | PSMD2 | 16.30 | 16.53 | 16.81 | 17.04 | 15.87 |
| Q06323 | PSME1 | 15.84 | 15.56 | 16.27 | 16.02 | 16.09 |
| P26599 | PTBP1 | 16.17 | 16.40 | 17.17 | 16.28 | 15.11 |
| Q15185 | PTGES3 | 16.99 | 15.88 | 16.05 | 17.90 | 16.03 |
| Q16647 | PTGIS | 15.70 | 16.00 | 16.41 | 16.24 | 15.53 |
| Q14289 | PTK2B | 15.91 | 15.42 | 15.91 | 17.06 | 15.87 |
| P29350 | PTPN6 | 18.09 | 16.87 | 19.59 | 18.58 | 20.17 |
| P08575 | PTPRC | 23.30 | 23.45 | 24.08 | 23.50 | 23.03 |
| Q12913 | PTPRJ | 19.20 | 19.62 | 20.85 | 19.95 | 19.76 |
| Q6NZI2 | PTRF | 18.74 | 16.80 | 19.97 | 22.44 | 19.80 |
| P26022 | PTX3 | 17.21 | 16.34 | 17.18 | 16.53 | 17.00 |
| P49023 | PXN | 15.85 | 15.49 | 16.96 | 15.38 | 16.19 |
| P06737 | PYGL | 17.48 | 15.70 | 18.24 | 17.92 | 17.29 |
| P11217 | PYGM | 21.33 | 20.39 | 20.52 | 20.14 | 20.84 |
| P20742 | PZP | 18.14 | 17.25 | 17.17 | 20.51 | 17.38 |
| Q16769 | QPCT | 16.22 | 16.03 | 15.90 | 16.17 | 16.44 |
| O00391 | QSOX1 | 16.00 | 16.21 | 18.55 | 15.20 | 16.28 |
| P61026 | RAB10 | 17.02 | 15.70 | 20.33 | 18.22 | 17.61 |
| Q15907 | RAB11B | 16.39 | 17.78 | 17.79 | 18.01 | 16.34 |
| P61106 | RAB14 | 17.18 | 15.53 | 18.33 | 17.28 | 16.86 |
| Q9H0U4 | RAB1B | 19.10 | 17.71 | 20.50 | 19.10 | 20.13 |
| P51159 | RAB27A | 19.70 | 19.60 | 20.61 | 19.44 | 19.98 |
| P61019 | RAB2A | 16.31 | 16.12 | 16.30 | 16.80 | 15.56 |
| Q13636 | RAB31 | 16.18 | 15.43 | 16.37 | 17.13 | 14.83 |
| Q15286 | RAB35 | 16.37 | 15.53 | 16.71 | 15.70 | 15.52 |

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|--------|--------|-------|-------|-------|-------|-------|
| P51148 | RAB5C | 18.69 | 18.00 | 18.87 | 17.26 | 16.97 |
| P20340 | RAB6A | 16.78 | 15.31 | 16.43 | 15.27 | 16.74 |
| P51149 | RAB7A | 19.72 | 20.13 | 20.30 | 20.06 | 20.00 |
| P61006 | RAB8A | 16.65 | 16.44 | 18.79 | 17.22 | 16.89 |
| Q92930 | RAB8B | 15.98 | 16.57 | 19.24 | 18.08 | 17.39 |
| P63000 | RAC1 | 15.66 | 16.54 | 17.19 | 15.23 | 15.49 |
| P15153 | RAC2 | 22.03 | 22.80 | 22.18 | 21.93 | 22.19 |
| P11234 | RALB | 15.75 | 16.20 | 17.95 | 17.67 | 16.11 |
| P62826 | RAN | 20.23 | 20.17 | 19.29 | 19.11 | 20.15 |
| P62834 | RAP1A | 15.87 | 16.16 | 17.56 | 16.95 | 15.66 |
| P61224 | RAP1B | 21.90 | 22.17 | 22.00 | 21.65 | 21.66 |
| P61225 | RAP2B | 17.71 | 16.67 | 19.47 | 17.91 | 17.72 |
| P02753 | RBP4 | 17.64 | 16.59 | 20.30 | 18.10 | 20.20 |
| Q00765 | REEP5 | 18.01 | 16.25 | 18.71 | 17.49 | 16.28 |
| O15258 | RER1 | 16.69 | 16.92 | 17.30 | 15.96 | 15.75 |
| P49795 | RGS19 | 16.45 | 18.15 | 19.02 | 17.77 | 17.32 |
| P18577 | RHCE | 18.02 | 18.58 | 16.29 | 16.88 | 17.09 |
| P61586 | RHOA | 20.37 | 21.09 | 20.07 | 20.57 | 20.23 |
| P84095 | RHOG | 19.23 | 21.04 | 20.75 | 20.24 | 19.62 |
| P07998 | RNASE1 | 16.78 | 15.71 | 16.95 | 15.22 | 16.27 |
| P12724 | RNASE3 | 16.69 | 15.32 | 17.06 | 16.96 | 16.00 |
| P13489 | RNH1 | 15.70 | 16.36 | 17.01 | 16.24 | 15.63 |
| Q9H4A4 | RNPEP | 15.06 | 15.61 | 16.41 | 17.05 | 17.33 |
| O75695 | RP2 | 18.22 | 18.06 | 19.38 | 18.55 | 17.82 |
| P62913 | RPL11 | 15.12 | 15.70 | 15.94 | 16.22 | 16.61 |
| P05388 | RPLP0 | 16.99 | 16.30 | 17.38 | 17.29 | 16.52 |
| P05387 | RPLP2 | 15.86 | 16.05 | 15.87 | 17.51 | 16.78 |
| P04843 | RPN1 | 20.80 | 20.63 | 21.40 | 20.60 | 20.40 |
| P04844 | RPN2 | 17.79 | 16.13 | 20.79 | 18.48 | 18.59 |
| P62277 | RPS13 | 15.74 | 16.31 | 16.99 | 16.66 | 15.95 |

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| P62249 | RPS16 | 16.63 | 15.98 | 17.37 | 16.62 | 16.35 |
| P62269 | RPS18 | 17.08 | 17.12 | 16.00 | 16.43 | 15.89 |
| P15880 | RPS2 | 17.18 | 16.06 | 17.06 | 16.00 | 15.96 |
| P23396 | RPS3 | 15.91 | 15.80 | 15.51 | 16.64 | 15.75 |
| P62701 | RPS4X | 17.07 | 17.82 | 17.82 | 17.91 | 15.29 |
| P62753 | RPS6 | 16.14 | 16.16 | 16.00 | 15.08 | 15.80 |
| P08865 | RPSA | 16.35 | 16.05 | 15.86 | 16.38 | 17.17 |
| P10301 | RRAS | 15.92 | 15.96 | 16.74 | 17.96 | 16.20 |
| Q15404 | RSU1 | 16.84 | 16.44 | 17.05 | 17.28 | 16.55 |
| Q9NQC3 | RTN4 | 20.58 | 20.80 | 20.69 | 20.58 | 20.40 |
| Q9Y265 | RUVBL1 | 15.96 | 15.69 | 15.70 | 16.52 | 15.78 |
| P60903 | S100A10 | 21.81 | 21.62 | 21.77 | 22.12 | 19.96 |
| P31949 | S100A11 | 20.53 | 20.07 | 22.20 | 21.84 | 21.67 |
| P80511 | S100A12 | 22.66 | 23.09 | 20.57 | 22.53 | 21.99 |
| P26447 | S100A4 | 19.24 | 21.02 | 20.39 | 17.92 | 18.60 |
| P06703 | S100A6 | 18.33 | 20.74 | 20.26 | 20.89 | 19.32 |
| P31151 | S100A7 | 15.28 | 17.34 | 16.42 | 16.47 | 18.30 |
| P05109 | S100A8 | 24.77 | 25.49 | 24.00 | 24.85 | 24.41 |
| P06702 | S100A9 | 25.41 | 26.05 | 25.17 | 25.46 | 25.36 |
| P35542 | SAA4 | 15.78 | 15.57 | 16.04 | 16.26 | 16.60 |
| Q9NTJ5 | SACM1L | 18.21 | 18.44 | 20.08 | 17.38 | 18.18 |
| Q9Y3Z3 | SAMHD1 | 18.46 | 17.75 | 18.61 | 17.71 | 18.50 |
| O15127 | SCAMP2 | 17.75 | 16.97 | 18.29 | 16.69 | 16.50 |
| Q14108 | SCARB2 | 16.06 | 15.82 | 16.49 | 16.64 | 15.80 |
| P22307 | SCP2 | 17.60 | 17.22 | 17.74 | 17.59 | 16.25 |
| O00560 | SDCBP | 21.67 | 21.89 | 21.83 | 21.70 | 22.05 |
| O95810 | SDPR | 16.79 | 15.58 | 15.79 | 16.89 | 15.88 |
| P67812 | SEC11A | 17.17 | 17.22 | 18.03 | 16.58 | 16.83 |
| O75396 | SEC22B | 18.31 | 17.45 | 19.42 | 18.10 | 17.00 |
| Q9UGP8 | SEC63 | 14.91 | 16.14 | 16.97 | 15.07 | 15.78 |

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|--------|-----------|-------|-------|-------|-------|-------|
| Q13228 | SELENBP1 | 17.15 | 16.69 | 17.10 | 18.20 | 16.65 |
| P49908 | SEPP1 | 18.56 | 17.34 | 19.70 | 17.59 | 17.97 |
| Q9NVA2 | SEPT11 | 16.37 | 15.44 | 15.85 | 16.14 | 15.45 |
| P01009 | SERPINA1 | 25.82 | 25.80 | 25.45 | 26.06 | 26.42 |
| Q9UK55 | SERPINA10 | 18.78 | 17.54 | 18.76 | 19.39 | 18.62 |
| P01011 | SERPINA3 | 26.25 | 26.77 | 25.32 | 26.17 | 26.33 |
| P29622 | SERPINA4 | 18.29 | 17.62 | 19.25 | 18.01 | 18.69 |
| P05154 | SERPINA5 | 16.99 | 15.86 | 17.57 | 17.24 | 16.80 |
| P30740 | SERPINB1 | 19.85 | 20.15 | 20.69 | 20.27 | 19.49 |
| P01008 | SERPINC1 | 22.71 | 22.64 | 22.62 | 21.95 | 22.76 |
| P05546 | SERPIND1 | 23.08 | 23.73 | 23.43 | 23.05 | 23.80 |
| P36955 | SERPINF1 | 21.51 | 21.01 | 22.03 | 23.14 | 22.24 |
| P08697 | SERPINF2 | 21.78 | 21.78 | 22.72 | 21.64 | 22.13 |
| P05155 | SERPING1 | 22.03 | 22.60 | 21.26 | 22.32 | 21.69 |
| P50454 | SERPINH1 | 16.39 | 15.49 | 16.22 | 16.50 | 15.35 |
| Q01105 | SET | 17.64 | 16.42 | 15.81 | 18.50 | 17.28 |
| P04278 | SHBG | 16.35 | 16.34 | 16.77 | 15.89 | 17.16 |
| O15389 | SIGLEC5 | 17.60 | 16.51 | 19.52 | 18.46 | 16.75 |
| Q9Y336 | SIGLEC9 | 16.23 | 15.47 | 17.89 | 15.58 | 15.38 |
| P78324 | SIRPA | 16.80 | 16.07 | 19.35 | 17.33 | 19.47 |
| O15427 | SLC16A3 | 17.20 | 19.73 | 16.04 | 16.37 | 16.48 |
| Q00325 | SLC25A3 | 16.99 | 16.59 | 17.46 | 16.99 | 16.07 |
| P05141 | SLC25A5 | 16.24 | 16.06 | 16.75 | 16.60 | 15.69 |
| O14975 | SLC27A2 | 15.82 | 16.06 | 17.19 | 16.55 | 16.24 |
| P11166 | SLC2A1 | 21.83 | 22.32 | 21.10 | 21.18 | 20.57 |
| P11169 | SLC2A3 | 20.19 | 20.75 | 20.46 | 18.83 | 19.85 |
| P08195 | SLC3A2 | 15.74 | 16.50 | 18.36 | 17.39 | 15.69 |
| Q8WWI5 | SLC44A1 | 16.06 | 16.23 | 17.46 | 15.84 | 15.35 |
| Q8IWA5 | SLC44A2 | 16.70 | 17.65 | 17.00 | 16.43 | 16.24 |
| P02730 | SLC4A1 | 25.33 | 25.52 | 24.73 | 24.90 | 24.39 |

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| A6NHR9 | SMCHD1 | 16.02 | 16.29 | 17.32 | 16.19 | 17.38 |
| O00161 | SNAP23 | 15.71 | 15.79 | 18.13 | 17.44 | 15.41 |
| P04179 | SOD2 | 16.15 | 15.79 | 17.01 | 16.25 | 16.09 |
| P08294 | SOD3 | 16.80 | 16.90 | 16.69 | 18.17 | 15.84 |
| Q92673 | SORL1 | 16.76 | 16.79 | 17.93 | 15.81 | 16.71 |
| Q15005 | SPCS2 | 16.21 | 16.13 | 17.02 | 15.74 | 15.77 |
| P16150 | SPN | 17.56 | 17.62 | 19.86 | 17.89 | 15.39 |
| P10451 | SPP1 | 16.32 | 15.86 | 15.96 | 16.24 | 15.77 |
| Q13103 | SPP2 | 20.94 | 17.06 | 17.92 | 20.90 | 20.15 |
| P02549 | SPTA1 | 21.43 | 20.55 | 22.47 | 21.76 | 20.03 |
| Q13813 | SPTAN1 | 17.00 | 17.99 | 20.32 | 19.25 | 17.02 |
| P11277 | SPTB | 21.47 | 21.12 | 22.33 | 21.89 | 19.88 |
| Q01082 | SPTBN1 | 17.28 | 15.36 | 18.39 | 17.86 | 16.58 |
| Q6ZRS2 | SRCAP | 17.15 | 18.20 | 17.02 | 18.21 | 17.20 |
| P30626 | SRI | 21.65 | 21.10 | 20.92 | 20.43 | 20.07 |
| Q9Y5M8 | SRPRB | 15.47 | 16.58 | 17.10 | 15.77 | 15.99 |
| Q07955 | SRSF1 | 19.01 | 16.41 | 15.45 | 18.26 | 18.23 |
| Q01130 | SRSF2 | 18.78 | 17.15 | 15.84 | 17.94 | 17.86 |
| Q16629 | SRSF7 | 17.62 | 17.41 | 15.88 | 17.34 | 16.99 |
| P43307 | SSR1 | 15.59 | 16.87 | 16.92 | 16.89 | 16.49 |
| Q08945 | SSRP1 | 15.21 | 16.89 | 16.47 | 16.14 | 14.87 |
| P50502 | ST13 | 17.54 | 16.14 | 15.84 | 17.12 | 17.48 |
| Q687X5 | STEAP4 | 16.54 | 17.29 | 17.78 | 16.87 | 16.24 |
| Q13586 | STIM1 | 16.10 | 16.14 | 17.71 | 16.71 | 16.99 |
| O94804 | STK10 | 16.27 | 16.27 | 17.05 | 16.45 | 16.66 |
| P27105 | STOM | 23.53 | 23.64 | 23.24 | 23.16 | 23.23 |
| P46977 | STT3A | 15.84 | 16.63 | 16.34 | 16.27 | 16.19 |
| Q8TCJ2 | STT3B | 15.83 | 15.99 | 16.48 | 15.95 | 16.45 |
| O75558 | STX11 | 15.71 | 15.69 | 17.74 | 15.82 | 15.85 |
| Q13277 | STX3 | 15.47 | 15.41 | 17.54 | 16.10 | 15.49 |

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| O15400 | STX7 | 17.19 | 17.23 | 17.64 | 18.15 | 16.56 |
| Q15833 | STXBP2 | 17.48 | 16.97 | 19.29 | 18.07 | 17.42 |
| O00186 | STXBP3 | 15.42 | 15.02 | 17.39 | 15.37 | 15.76 |
| P53999 | SUB1 | 17.05 | 16.20 | 17.13 | 16.67 | 15.77 |
| P50225 | SULT1A1 | 16.31 | 15.56 | 17.63 | 17.71 | 17.58 |
| Q8NBJ7 | SUMF2 | 15.82 | 15.91 | 16.79 | 16.28 | 15.94 |
| Q9UH99 | SUN2 | 17.45 | 15.98 | 19.43 | 17.53 | 18.86 |
| O15260 | SURF4 | 17.58 | 18.15 | 18.32 | 16.79 | 16.29 |
| P43405 | SYK | 16.08 | 15.91 | 16.41 | 15.62 | 15.46 |
| Q01995 | TAGLN | 15.72 | 16.82 | 16.96 | 15.86 | 16.83 |
| P37802 | TAGLN2 | 17.08 | 16.35 | 18.79 | 17.71 | 17.36 |
| P37837 | TALDO1 | 15.81 | 17.03 | 15.39 | 15.60 | 16.24 |
| O15533 | TAPBP | 16.61 | 15.62 | 17.09 | 16.04 | 16.07 |
| P24557 | TBXAS1 | 17.63 | 17.32 | 18.61 | 16.21 | 17.46 |
| Q13488 | TCIRG1 | 17.09 | 16.08 | 17.77 | 17.24 | 15.96 |
| P20061 | TCN1 | 15.77 | 16.05 | 16.29 | 17.10 | 15.91 |
| P17987 | TCP1 | 17.38 | 16.55 | 16.52 | 17.17 | 16.53 |
| Q9NZ01 | TECR | 16.86 | 16.57 | 17.28 | 18.07 | 15.22 |
| P02787 | TF | 27.21 | 27.17 | 27.21 | 27.47 | 27.48 |
| P02786 | TFRC | 16.31 | 16.85 | 15.66 | 16.16 | 15.91 |
| Q15582 | TGFBI | 17.77 | 17.46 | 20.67 | 18.34 | 18.75 |
| P21980 | TGM2 | 16.24 | 16.85 | 16.04 | 15.98 | 15.92 |
| P07996 | THBS1 | 20.01 | 16.86 | 16.82 | 15.89 | 18.28 |
| P35443 | THBS4 | 16.61 | 15.84 | 15.68 | 15.44 | 15.66 |
| P04216 | THY1 | 16.15 | 16.44 | 17.66 | 17.07 | 15.68 |
| P01033 | TIMP1 | 16.37 | 18.41 | 19.28 | 17.35 | 17.79 |
| P29401 | TKT | 19.38 | 19.08 | 20.46 | 20.19 | 19.35 |
| Q9Y490 | TLN1 | 21.05 | 20.55 | 22.31 | 21.60 | 21.12 |
| O60603 | TLR2 | 19.06 | 18.08 | 20.35 | 17.52 | 17.71 |
| Q9NR97 | TLR8 | 16.15 | 15.94 | 15.96 | 16.51 | 16.49 |

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|--------|----------|-------|-------|-------|-------|-------|
| Q99805 | TM9SF2 | 16.02 | 16.11 | 15.64 | 16.17 | 15.66 |
| Q9HD45 | TM9SF3 | 16.61 | 15.07 | 16.70 | 16.78 | 16.34 |
| Q9UM00 | TMCO1 | 15.63 | 15.78 | 17.50 | 15.67 | 16.34 |
| P49755 | TMED10 | 18.95 | 17.06 | 20.24 | 17.73 | 18.88 |
| Q15363 | TMED2 | 16.96 | 17.56 | 18.42 | 17.86 | 17.42 |
| Q9Y3A6 | TMED5 | 16.26 | 16.28 | 17.81 | 16.40 | 16.77 |
| Q9Y3B3 | TMED7 | 17.56 | 17.86 | 17.42 | 16.08 | 16.72 |
| Q9BVK6 | TMED9 | 18.75 | 17.80 | 18.33 | 16.73 | 17.10 |
| Q86WV6 | TMEM173 | 15.99 | 15.89 | 18.21 | 17.13 | 15.66 |
| Q9NV96 | TMEM30A | 16.22 | 16.71 | 17.08 | 16.04 | 17.13 |
| P57088 | TMEM33 | 16.12 | 15.80 | 16.19 | 15.99 | 15.84 |
| Q9BTV4 | TMEM43 | 18.34 | 18.02 | 18.81 | 18.57 | 17.95 |
| O94886 | TMEM63A | 15.85 | 15.54 | 16.44 | 15.85 | 16.12 |
| Q9H3N1 | TMX1 | 18.60 | 18.69 | 18.76 | 17.82 | 16.70 |
| Q96JJ7 | TMX3 | 16.35 | 15.78 | 17.08 | 16.08 | 16.71 |
| Q9H1E5 | TMX4 | 15.69 | 16.01 | 17.28 | 15.50 | 16.12 |
| O95379 | TNFAIP8 | 16.02 | 15.56 | 16.29 | 16.86 | 14.46 |
| P63316 | TNNC1 | 16.74 | 15.92 | 15.54 | 16.00 | 16.27 |
| P02585 | TNNC2 | 18.07 | 16.26 | 16.69 | 17.17 | 15.73 |
| P19237 | TNNI1 | 17.15 | 16.68 | 16.60 | 17.49 | 16.50 |
| P22105 | TNXB | 16.54 | 19.10 | 18.97 | 18.03 | 15.63 |
| O60784 | TOM1 | 16.67 | 15.30 | 17.55 | 17.10 | 16.77 |
| Q5JTV8 | TOR1AIP1 | 18.33 | 18.13 | 19.86 | 18.86 | 19.28 |
| O14683 | TP53I11 | 15.55 | 16.12 | 16.67 | 15.34 | 15.14 |
| P60174 | TPI1 | 19.67 | 19.33 | 19.78 | 19.22 | 18.24 |
| P09493 | TPM1 | 17.24 | 15.95 | 18.23 | 15.92 | 18.15 |
| P06753 | TPM3 | 17.78 | 16.23 | 19.67 | 17.81 | 18.39 |
| O14773 | TPP1 | 16.33 | 15.33 | 17.12 | 17.55 | 16.13 |
| P29144 | TPP2 | 17.54 | 18.89 | 15.49 | 16.04 | 15.23 |
| Q8NG11 | TSPAN14 | 15.87 | 15.48 | 16.68 | 16.35 | 16.20 |

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| P30536 | TSPO | 17.11 | 15.70 | 20.00 | 15.56 | 17.06 |
| Q8WZ42 | TTN | 21.52 | 20.00 | 20.86 | 19.18 | 20.05 |
| P02766 | TTR | 21.39 | 21.39 | 21.55 | 20.96 | 22.83 |
| P68363 | TUBA1B | 22.33 | 22.74 | 22.29 | 22.92 | 22.69 |
| P68366 | TUBA4A | 17.69 | 16.59 | 18.99 | 18.05 | 18.54 |
| P07437 | TUBB | 20.23 | 20.22 | 20.32 | 20.39 | 20.10 |
| P68371 | TUBB4B | 22.60 | 22.85 | 22.54 | 23.03 | 22.69 |
| P10599 | TXN | 17.18 | 16.00 | 16.39 | 17.14 | 15.67 |
| Q8NBS9 | TXNDC5 | 16.05 | 15.54 | 17.82 | 17.58 | 16.79 |
| Q9H3M7 | TXNIP | 15.92 | 16.75 | 15.93 | 16.24 | 16.79 |
| P19971 | TYMP | 15.47 | 16.59 | 17.42 | 17.19 | 16.48 |
| O43914 | TYROBP | 16.07 | 15.62 | 16.80 | 16.15 | 15.98 |
| P22314 | UBA1 | 16.76 | 15.86 | 17.62 | 17.59 | 17.70 |
| P62987 | UBA52 | 23.47 | 23.93 | 22.75 | 23.26 | 23.29 |
| P61088 | UBE2N | 15.48 | 16.20 | 15.74 | 16.05 | 15.51 |
| Q5T4S7 | UBR4 | 16.34 | 16.38 | 16.05 | 15.94 | 15.03 |
| Q9NYU2 | UGGT1 | 17.25 | 16.56 | 18.69 | 17.82 | 17.12 |
| Q16851 | UGP2 | 17.92 | 16.55 | 19.20 | 19.48 | 18.13 |
| P22695 | UQCRC2 | 15.55 | 15.62 | 16.36 | 15.97 | 16.30 |
| P47985 | UQCRFS1 | 15.27 | 16.28 | 16.24 | 16.15 | 16.06 |
| Q15836 | VAMP3 | 16.53 | 14.96 | 17.68 | 16.34 | 15.67 |
| P51809 | VAMP7 | 15.99 | 15.53 | 16.40 | 15.68 | 15.33 |
| Q9P0L0 | VAPA | 16.35 | 16.06 | 17.67 | 16.37 | 15.37 |
| P50552 | VASP | 17.39 | 18.45 | 18.86 | 18.65 | 18.73 |
| Q99536 | VAT1 | 17.07 | 17.86 | 18.79 | 18.16 | 17.86 |
| P15498 | VAV1 | 15.66 | 16.38 | 15.81 | 15.49 | 16.43 |
| P18206 | VCL | 18.04 | 16.08 | 20.09 | 18.42 | 17.93 |
| P55072 | VCP | 20.72 | 21.13 | 22.50 | 20.46 | 20.73 |
| P45880 | VDAC2 | 16.33 | 15.75 | 16.04 | 16.73 | 15.66 |
| P08670 | VIM | 22.74 | 22.87 | 23.52 | 23.76 | 23.06 |

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|--------|-----------|-------|-------|-------|-------|-------|
| Q96GC9 | VMP1 | 16.03 | 15.66 | 15.95 | 15.57 | 15.86 |
| O95497 | VNN1 | 16.40 | 16.07 | 19.67 | 16.49 | 16.20 |
| O95498 | VNN2 | 22.14 | 21.47 | 22.87 | 22.63 | 21.36 |
| Q96QK1 | VPS35 | 15.58 | 15.49 | 16.23 | 17.23 | 15.80 |
| P04004 | VTN | 27.26 | 27.84 | 27.09 | 27.47 | 28.09 |
| P04275 | VWF | 16.90 | 16.63 | 20.31 | 19.00 | 18.18 |
| Q9Y6W5 | WASF2 | 16.50 | 15.87 | 18.37 | 16.85 | 16.94 |
| O75083 | WDR1 | 19.41 | 18.89 | 19.06 | 19.69 | 19.47 |
| P13010 | XRCC5 | 17.66 | 17.16 | 18.99 | 18.14 | 18.15 |
| P12956 | XRCC6 | 16.91 | 16.01 | 18.35 | 17.17 | 17.12 |
| P67809 | YBX1 | 16.35 | 16.22 | 16.60 | 17.21 | 15.28 |
| P31946 | YWHAB | 18.52 | 18.47 | 19.60 | 18.25 | 18.18 |
| P62258 | YWHAE | 16.96 | 16.41 | 19.18 | 17.53 | 15.73 |
| P61981 | YWHAG | 16.11 | 15.26 | 17.43 | 17.13 | 16.86 |
| Q04917 | YWHAH | 16.23 | 17.05 | 18.35 | 17.19 | 17.38 |
| P27348 | YWHAQ | 15.60 | 14.98 | 15.70 | 17.30 | 15.84 |
| P63104 | YWHAZ | 21.64 | 20.83 | 22.13 | 21.62 | 21.17 |
| Q15942 | ZYX | 16.36 | 15.06 | 18.31 | 16.78 | 16.71 |
| P01598 | IGKV1-5 | 23.31 | 23.36 | 21.54 | 21.20 | 21.03 |
| P01610 | IGKV1-17 | 22.35 | 23.09 | 21.47 | 22.62 | 22.16 |
| P01611 | IGKV1D-12 | 17.79 | 18.54 | 15.91 | 16.97 | 17.37 |
| P01612 | IGKV1-39 | 15.97 | 15.94 | 16.64 | 16.79 | 16.38 |
| P01613 | IGKV1D-33 | 19.33 | 20.31 | 19.79 | 20.52 | 20.28 |
| P01617 | IGKV2D-28 | 21.36 | 22.02 | 20.87 | 21.06 | 21.21 |
| P01619 | IGKV3-20 | 17.04 | 16.51 | 17.31 | 18.07 | 17.65 |
| P01620 | IGKV3-20 | 25.04 | 25.29 | 24.83 | 24.82 | 24.83 |
| P01621 | IGKV3-20 | 20.70 | 22.67 | 22.67 | 22.82 | 22.89 |
| P01624 | IGKV3-15 | 15.89 | 15.17 | 16.19 | 16.06 | 15.67 |
| P01625 | IGKV4-1 | 25.16 | 24.73 | 23.71 | 23.74 | 24.19 |
| P01700 | IGLV1-47 | 17.35 | 16.40 | 17.87 | 18.65 | 16.57 |

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|--------|-----------|-------|-------|-------|-------|-------|
| P01702 | IGLV1-51 | 19.97 | 20.60 | 16.19 | 16.47 | 15.81 |
| P01708 | IGLV2-11 | 18.48 | 18.17 | 16.84 | 18.67 | 18.46 |
| P01714 | IGLV3-19 | 18.09 | 15.68 | 21.91 | 18.72 | 20.69 |
| P01717 | IGLV3-25 | 16.59 | 21.11 | 15.52 | 17.20 | 17.04 |
| P01743 | IGHV1-46 | 21.71 | 22.95 | 21.56 | 22.03 | 20.32 |
| P01765 | IGHV3-23 | 17.93 | 16.29 | 22.23 | 18.66 | 19.60 |
| P01766 | IGHV3-13 | 25.27 | 25.08 | 24.09 | 24.92 | 25.11 |
| P01769 | IGHV3-30 | 17.38 | 17.93 | 16.70 | 18.20 | 16.11 |
| P01781 | IGHV3-7 | 23.50 | 22.35 | 22.31 | 22.96 | 23.34 |
| P04207 | IGKV3-15 | 22.64 | 21.22 | 21.78 | 20.85 | 22.83 |
| P04208 | IGLV1-47 | 18.05 | 19.32 | 15.89 | 15.71 | 18.33 |
| P04209 | IGLV2-14 | 16.59 | 16.67 | 15.96 | 16.51 | 15.44 |
| P04211 | IGLV7-43 | 15.45 | 17.14 | 16.42 | 15.44 | 16.94 |
| P04220 | IGHM | 24.97 | 24.31 | 23.73 | 23.92 | 24.29 |
| P04430 | IGKV1-16 | 16.78 | 17.66 | 15.69 | 16.30 | 15.73 |
| P04433 | IGKV3-11 | 22.12 | 21.20 | 22.74 | 22.75 | 22.99 |
| P04438 | IGHV2-70 | 16.36 | 16.37 | 18.63 | 15.39 | 15.79 |
| P06309 | IGKV2D-28 | 19.85 | 20.68 | 18.77 | 19.74 | 19.79 |
| P06310 | IGKV2-30 | 23.67 | 23.64 | 23.09 | 23.11 | 23.23 |
| P06311 | IGKV3-20 | 16.59 | 15.24 | 19.66 | 17.10 | 17.06 |
| P06331 | IGHV4-34 | 21.58 | 22.26 | 20.83 | 20.69 | 20.75 |
| P23083 | IGHV1-2 | 20.39 | 19.53 | 19.18 | 20.34 | 16.96 |
| P80419 | IGHV3-7 | 17.74 | 16.59 | 16.97 | 16.18 | 16.85 |
| P80748 | IGLV3-21 | 23.81 | 24.49 | 23.14 | 23.63 | 22.48 |